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**First Quarter 2017
Annual Groundwater
Monitoring Report**

Former Chevron-branded Service
Station 90517
3900 Piedmont Avenue
Oakland, California
Case #: RO0000138



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

March 24, 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

March 24, 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 *First Quarter 2017 Annual Groundwater Monitoring Report* for former Chevron-branded service station 90517, located at 3900 Piedmont Avenue in Oakland, California (**Case #:** RO0000138). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached report submitted on my behalf to Alameda County Environmental Health's FTP server and the State Water Resources Control Board's GeoTracker™ Website.

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



March 24, 2017

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

Reference: **First Quarter 2017 Annual Groundwater Monitoring Report**
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue, Oakland, California

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (CEMC), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *First Quarter 2017 Annual Groundwater Monitoring Report* for former Chevron-branded service station 90517, which was located at 3900 Piedmont Avenue, Oakland, Alameda County, California (Site - shown on **Figure 1**). This report is presented in three sections: Site Background, First Quarter 2017 Groundwater Monitoring and Sampling Program, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is a former Chevron-branded service station located on the eastern corner at the intersection of Piedmont Avenue and Montell Street in Oakland, California. The Site is currently occupied by a one-story commercial building and associated parking areas. The Site background is summarized according to the *Case Closure Request*, prepared by Conestoga-Rovers & Associates (CRA) and dated October 12, 2010, and indicates a Chevron-branded service station operated at the Site from at least 1940 until 1978.

Based on a Site Plan from 1940, first-generation Site features consisted of three gasoline underground storage tanks (USTs; 928-gallon, 440-gallon, and 550-gallon) located in the southwestern portion of the Site, a lubrication building with a waste oil sump in the eastern corner of the Site, two fuel dispenser islands located in the western portion of the Site, and a small station building located adjacent to the fuel dispenser islands. Based on a Site Plan from 1955, the first-generation gasoline USTs were removed and three second-generation gasoline USTs (3,000-gallon, 5,000-gallon, and 7,500-gallon) were installed to the northwest of the first-generation USTs. A 1,000-gallon waste oil UST is shown to the northwest of the lubrication building and two hydraulic hoists are shown within the building. In addition, the first-generation fuel dispenser islands were removed and second-generation fuel dispenser islands were installed to the east of the first-generation fuel dispenser islands. Based on a Site Plan from 1971, the mid-size gasoline UST is identified as 5,700 gallons instead of 5,000 gallons. In 1978, the service station was closed and all remaining Site features, including underground fuel structures, were removed. The existing commercial building was then constructed.

Land use near the Site consists of a mixture of commercial and residential properties. The Site is bounded on the northwest by Piedmont Avenue, to the northeast by a commercial building that appears to be vacant, to the southeast by residences, and on the southwest by Montell Street.

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Former Chevron-branded Service Station 90517

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FIRST QUARTER 2017 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan, Inc. (G-R) performed the First Quarter 2017 groundwater monitoring and sampling event on February 27, 2017. 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-1 through MW-4) prior to collecting groundwater samples for laboratory analysis. Three Site wells (MW-1, MW-3, and MW-4) were purged and sampled using low-flow procedures. Well MW-2 was gauged for DTW only because it was removed from the groundwater sampling program in 2009 due to a long history of non-detect concentrations.

Investigation-derived waste (IDW) generated during the First Quarter 2017 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 First Quarter 2017 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the west at an average hydraulic gradient of approximately 0.029 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 Third Quarter 1998 to present.

Schedule of Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline range organics (TPH-GRO) and TPH as diesel range organics (TPH-DRO) with silica gel cleanup using United States Environmental Protection Agency (US EPA) Method 8015B (SW-846) and TPH as motor oil (TPH-MO) using US EPA Method 8015B modified (SW-846). Benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), methyl *tertiary*-butyl ether (MtBE), and naphthalene were analyzed using US EPA Method 8260B (SW-846). Metals (cadmium, chromium, lead, nickel, and zinc) were analyzed using US EPA Method 6010B (SW-846). In addition, the laboratory reported total TPH for internal quality assurance/quality control purposes.

Groundwater Analytical Results

During First Quarter 2017, groundwater samples were collected from three Site wells (MW-1, MW-3, and MW-4). Current and historical groundwater analytical results are included in **Table 2** through **Table 6**. 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 TPH-DRO isoconcentration map is shown on **Figure 6**. A benzene isoconcentration map is shown on **Figure 7**. An isoconcentration map was not developed for MtBE because all concentrations were below method detection limits (MDLs).

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 for wells that were sampled are included in **Attachment C**. A summary of select First Quarter 2017 groundwater analytical results follows:

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| Well ID | TPH-GRO (µg/L) | TPH-DRO (µg/L) | TPH-MO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MtBE (µg/L) |
|---------|-------------------|-------------------|------------------|-------------------|-------------------|------------------------|-------------------------|----------------|
| MW-1 | <50 | <50 | 600 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-3 | <50 | <50 | <40 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-4 | 2,400 | 190 | 66 | 33 | 14 | 4 | 11 | <0.5 |

CONCLUSIONS AND RECOMMENDATIONS

Maximum concentrations of TPH-GRO, TPH-DRO, BTEX compounds, and naphthalene were observed in well MW-4, located approximately 20 feet down-gradient of the northern-most first-generation fuel dispenser island. The maximum concentration of TPH-MO was observed in well MW-1, located in the immediate vicinity of the former waste oil UST and sump. Maximum concentrations of nickel and zinc were observed in well MW-3, located approximately 20 feet down-gradient of the former USTs. Stantec recommends ceasing analyses for MtBE, naphthalene, and metals due to the low (below environmental screening levels) to non-detectable concentrations observed in all three wells.

In a letter dated November 10, 2016, Alameda County Environmental Health (ACEH) requested additional on-site and off-site assessment with a report due by January 27, 2017. Extensions on the report were requested by Stantec in letters dated January 12 and March 13, 2017. Pending ACEH approval of the March 13, 2017 extension request, the current due date of the report will be June 16, 2017. Field work is currently scheduled to begin March 24, 2017.

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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Former Chevron-branded Service Station 90517

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LIMITATIONS

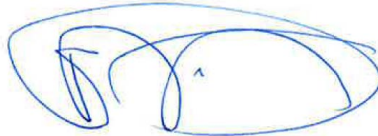
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Prepared by Erin O'Malley
(signature)

Erin O'Malley
Project Engineer

Reviewed by Marisa Kaffenberger
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Marisa Kaffenberger
Senior Engineer



Reviewed by _____
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Dorota Runyan, P.E.
Senior Engineer



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Attachments:

Table 1 – Well Details / Screen Interval Assessment – First Quarter 2017

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Groundwater Analytical Results – Oxygenate Compounds

Table 4 – Groundwater Analytical Results – PPL Volatiles

Table 5 – Groundwater Analytical Results – Metals

Table 6 – Groundwater Analytical Results – PCBs

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – First Quarter 2017

Figure 3 – Groundwater Flow Direction Rose Diagram – First Quarter 2017

Figure 4 – Site Plan Showing Groundwater Concentrations – First Quarter 2017

Figure 5 – TPH-GRO Isoconcentration Map – First Quarter 2017

Figure 6 – TPH-DRO Isoconcentration Map – First Quarter 2017

Figure 7 – Benzene Isoconcentration Map – First Quarter 2017

Attachment A – Gettler-Ryan Inc. Field Data Sheets and Standard Operating Procedures –
First Quarter 2017

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

Neil and Diane Goodhue, 300 Hillside Avenue, Piedmont, CA 94611

TABLES

Table 1
Well Details / Screen Interval Assessment
First Quarter 2017
Former Chevron-Branded Service Station 90517
3900 Piedmont Avenue, 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-1 | 07/21/98 | Monitoring | 2 | 87.89 | 16.50 | 16.61 | 5.44 | 3.5-16.5 | Depth-to-groundwater within screen interval. |
| MW-2 | 07/21/98 | Monitoring | 2 | 86.09 | 16.50 | 16.55 | 5.08 | 3.5-16.5 | Depth-to-groundwater within screen interval. |
| MW-3 | 07/21/98 | Monitoring | 2 | 86.28 | 17.50 | 17.70 | 6.18 | 4.5-17.5 | Depth-to-groundwater within screen interval. |
| MW-4 | 07/21/98 | Monitoring | 2 | 87.22 | 16.50 | 16.25 | 7.48 | 3.5-16.5 | Depth-to-groundwater within screen interval. |

Notes:
bgs = below ground surface
msl = mean sea level
TOC = top of casing
¹ = As measured on February 27, 2017.

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (msl) | TOTAL TPH (µg/L) | TPH-MO (µg/L) | O&G (µg/L) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MIBE (µg/L) |
|-----------------------|---------------|--------------|--------------|--|--|--------------------------------|------------------------------|-------------------|-------------|-------------|-------------|-------------|----------------|
| MW-1 | | | | | | | | | | | | | |
| 08/03/98 | 87.89 | 12.43 | 75.46 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 11/23/98 | 87.89 | 9.05 | 78.84 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 |
| 02/08/99 | 87.89 | 6.50 | 81.39 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 05/07/99 | 87.89 | 7.13 | 80.76 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 08/23/99 | 87.89 | 9.15 | 78.74 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 11/03/99 | 87.89 | 9.54 | 78.35 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/15/00 | 87.89 | 5.90 | 81.99 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 05/12/00 ³ | 87.89 | 7.05 | 80.84 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 07/31/00 | 87.89 | 8.40 | 79.49 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 10/30/00 | 87.89 | 8.65 | 79.24 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.50 | <2.50 |
| 02/27/01 | 87.89 | 5.83 | 82.06 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 |
| 05/15/01 | 87.89 | 7.71 | 80.18 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 |
| 08/23/01 | 87.89 | DRY | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/25/02 | 87.89 | 6.71 | 81.18 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 08/05/02 | 87.89 | 8.89 | 79.00 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 02/11/03 | 87.89 | 7.36 | 80.53 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 08/09/03 ⁵ | 87.89 | 9.47 | 78.42 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/25/04 ⁵ | 87.89 | 6.30 | 81.59 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/04 ⁵ | 87.89 | 10.12 | 77.77 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/11/05 ⁵ | 87.89 | 6.79 | 81.10 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/15/05 ⁵ | 87.89 | 8.89 | 79.00 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/10/06 ⁵ | 87.89 | 6.65 | 81.24 | -- | -- | -- | -- | <50 | 1 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/02/06 ⁵ | 87.89 | 7.73 | 80.16 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/09/07 ⁵ | 87.89 | 7.77 | 80.12 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/07 ⁵ | 87.89 | 9.59 | 78.30 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/18/08 ⁵ | 87.89 | 7.41 | 80.48 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/12/08 ⁵ | 87.89 | 9.78 | 78.11 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/19/09 ⁵ | 87.89 | 5.61 | 82.28 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/07/09 | 87.89 | 10.22 | 77.67 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 01/29/10 | 87.89 | 6.04 | 81.85 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 08/11/10 | 87.89 | 8.35 | 79.54 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 02/02/11 | 87.89 | 6.54 | 81.35 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 01/31/12 | INACCESSIBLE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/10/12 ⁵ | 87.89 | 7.28 | 80.61 | 2,800 ⁶ / 1,300 ^{6,7,8} | 2,800 ⁶ / 1,300 ^{6,7,8} | -- | 1,400/ 720 ^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <1 | <0.5 |
| 02/09/13 ⁵ | 87.89 | 7.47 | 80.42 | 1,400 ⁶ / 700 ^{6,7,8} | 1,400 ⁶ / 700 ^{6,7,8} | 1,600/ 2,400 ⁷ | 650/ 220 ^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/24/14 ⁵ | 87.89 | 8.68 | 79.21 | 2,400 ⁶ | 2,400 ⁶ | <1,400/ <1,400 ⁷ | 1,100/ 570 ^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2 |

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (msl) | TOTAL TPH (µg/L) | TPH-MO (µg/L) | O&G (µg/L) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MIBE (µg/L) |
|-----------------------------|---------------|--------------|--------------|--|------------------------|---------------|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|
| MW-1 (cont) | | | | | | | | | | | | | |
| 02/04/15 ⁵ | 87.89 | 7.98 | 79.91 | 71 ^{6,7,8} | 71 ^{6,7,8} | -- | 360 ^{7,8} | <50 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 |
| 01/14/16 ⁵ | 87.89 | 8.35 | 79.54 | 520 ⁶ | 520 ⁶ | -- | 400 ^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/27/17⁵ | 87.89 | 5.44 | 82.45 | 600⁶ | 600⁶ | -- | <50^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-2 | | | | | | | | | | | | | |
| 08/03/98 | 86.09 | 11.34 | 74.75 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.4 |
| 11/23/98 | 86.09 | 6.90 | 79.19 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 |
| 02/08/99 | 86.09 | 5.23 | 80.86 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 05/07/99 | 86.09 | 6.12 | 79.97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 08/23/99 | 86.09 | 6.41 | 79.68 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 11/03/99 | 86.09 | 7.29 | 78.80 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/15/00 | 86.09 | 4.49 | 81.60 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 05/12/00 | 86.09 | 5.90 | 80.19 | -- | -- | -- | -- | 4,000 ³ | 240 | 26 | 100 | 76 | <100 |
| 07/31/00 | 86.09 | 6.58 | 79.51 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 10/30/00 | 86.09 | 6.23 | 79.86 | -- | -- | -- | -- | <51 | <0.50 | 2.92 | <0.50 | 1.88 | 4.89 |
| 02/27/01 | 86.09 | 4.60 | 81.49 | -- | -- | -- | -- | <52 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 |
| 05/15/01 | 86.09 | 6.3 | 79.79 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 |
| 08/23/01 | 86.09 | 7.28 | 78.81 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 02/25/02 | 86.09 | 5.61 | 80.48 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 08/05/02 | 86.09 | 7.10 | 78.99 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 02/11/03 | 86.09 | 7.45 | 78.64 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 08/09/03 ⁵ | 86.09 | 7.65 | 78.44 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/25/04 ⁵ | 86.09 | 4.85 | 81.24 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/04 ⁵ | 86.09 | 8.23 | 77.86 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/11/05 ⁵ | 86.09 | 5.93 | 80.16 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/15/05 ⁵ | 86.09 | 7.59 | 78.50 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/10/06 ⁵ | 86.09 | 5.73 | 80.36 | -- | -- | -- | -- | <50 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/02/06 ⁵ | 86.09 | 6.95 | 79.14 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/09/07 ⁵ | 86.09 | 6.29 | 79.80 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/07 ⁵ | 86.09 | 7.40 | 78.69 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/18/08 ⁵ | 86.09 | 6.47 | 79.62 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/12/08 ⁵ | 86.09 | 7.08 | 79.01 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/19/09 ⁵ | 86.09 | 6.50 | 79.59 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/07/09 | 86.09 | 8.51 | 77.58 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 01/29/10 | 86.09 | 6.29 | 79.80 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 08/11/10 | 86.09 | 7.20 | 78.89 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 02/02/11 | 86.09 | 6.87 | 79.22 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 01/31/12 | 86.09 | 6.81 | 79.28 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (msl) | TOTAL TPH (µg/L) | TPH-MO (µg/L) | O&G (µg/L) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MIBE (µg/L) |
|-----------------------|---------------|--------------|--------------|---|------------------|---------------|-------------------|---------------------|-------------|-------------|-------------|-------------|----------------|
| MW-2 (cont) | | | | | | | | | | | | | |
| 02/09/13 | 86.09 | 5.80 | 80.29 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 02/24/14 | 86.09 | 6.95 | 79.14 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 02/04/15 | 86.09 | 5.59 | 80.50 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 01/14/16 | 86.09 | 5.40 | 80.69 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| 02/27/17 | 86.09 | 5.08 | 81.01 | NOT PART OF GROUNDWATER SAMPLING PROGRAM | | | | -- | -- | -- | -- | -- | -- |
| MW-3 | | | | | | | | | | | | | |
| 08/03/98 | 86.28 | 12.08 | 74.20 | -- | -- | -- | -- | 4,000 | 160 | <5.0 | <5.0 | 73 | 180 |
| 11/23/98 | 86.28 | 7.69 | 78.59 | -- | -- | -- | -- | 4,000 | 67.7 | 7.56 | 17.1 | 24.5 | 41.2 |
| 02/08/99 | 86.28 | 6.27 | 80.01 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 05/07/99 | 86.28 | 6.96 | 79.32 | -- | -- | -- | -- | 1,800 | 53.6 | 8.96 | 33 | 18.6 | 21.4 |
| 08/23/99 | 86.28 | 7.92 | 78.36 | -- | -- | -- | -- | 3,970 | 155 | 24 | 88.8 | 39.8 | 185 |
| 11/03/99 | 86.28 | 7.92 | 78.36 | -- | -- | -- | -- | 3,320 | 108 | 19.9 | 98.4 | 44.8 | <25 |
| 02/15/00 | 86.28 | 5.74 | 80.54 | -- | -- | -- | -- | 779 | 26.7 | 3.82 | 15.4 | 4.24 | <12.5 |
| 05/12/00 | 86.28 | 6.76 | 79.52 | -- | -- | -- | -- | 12,000 ³ | 3,100 | 120 | 980 | 1,400 | 820 |
| 07/31/00 | 86.28 | 7.30 | 78.98 | -- | -- | -- | -- | 1,200 ³ | 32 | <5.0 | 11 | 7.3 | 39 |
| 10/30/00 | 86.28 | 7.02 | 79.26 | -- | -- | -- | -- | 3,300 ⁴ | 119 | <5.00 | 40 | <15.0 | <25.0 |
| 02/27/01 | 86.28 | 5.89 | 80.39 | -- | -- | -- | -- | 432 ³ | 15.5 | 1.53 | 14.9 | 1.06 | 15.7 |
| 05/15/01 | 86.28 | 7.07 | 79.21 | -- | -- | -- | -- | 3,220 ³ | 96.4 | 12.6 | 11.5 | 11.6 | 128 |
| 08/23/01 | 86.28 | 8.05 | 78.23 | -- | -- | -- | -- | 2,300 | 48 | <10 | <10 | <10 | 100 |
| 02/25/02 | 86.28 | 6.73 | 79.55 | -- | -- | -- | -- | 3,100 | 27 | 2.1 | 4.8 | 6.6 | <2.5 |
| 08/05/02 | 86.28 | 7.95 | 78.33 | -- | -- | -- | -- | 4,100 | 87 | 21 | 90 | 47 | 21 |
| 02/11/03 | 86.28 | 7.05 | 79.23 | -- | -- | -- | -- | 3,700 | 21 | 2.3 | 4.4 | 9 | <20 |
| 08/09/03 ⁵ | 86.28 | 8.23 | 78.05 | -- | -- | -- | -- | 1,600 | 12 | 1 | 2 | 4 | 0.7 |
| 02/25/04 ⁵ | 86.28 | 5.85 | 80.43 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/04 ⁵ | 86.28 | 9.05 | 77.23 | -- | -- | -- | -- | 3,000 | 21 | 3 | 3 | 9 | <0.5 |
| 02/11/05 ⁵ | 86.28 | 7.02 | 79.26 | -- | -- | -- | -- | 540 | 15 | 1 | <0.5 | 0.8 | <0.5 |
| 08/15/05 ⁵ | 86.28 | 8.41 | 77.87 | -- | -- | -- | -- | 2,600 | 11 | 1 | 1 | 2 | <0.5 |
| 02/10/06 ⁵ | 86.28 | 6.93 | 79.35 | -- | -- | -- | -- | 970 | 20 | 2 | <0.5 | 3 | <0.5 |
| 08/02/06 ⁵ | 86.28 | 8.00 | 78.28 | -- | -- | -- | -- | 1,000 | 16 | 1 | <0.5 | 3 | <0.5 |
| 02/09/07 ⁵ | 86.28 | 7.33 | 78.95 | -- | -- | -- | -- | 590 | 3 | <0.5 | <0.5 | 0.5 | <0.5 |
| 08/23/07 ⁵ | 86.28 | 8.83 | 77.45 | -- | -- | -- | -- | 2,700 | 18 | 4 | 2 | 8 | <0.5 |
| 02/18/08 ⁵ | 86.28 | 7.27 | 79.01 | -- | -- | -- | -- | 1,300 | 8 | 1 | 0.6 | 1 | <0.5 |
| 08/12/08 ⁵ | 86.28 | 9.58 | 76.70 | -- | -- | -- | -- | 2,000 | 21 | 3 | 1 | 4 | <0.5 |
| 02/19/09 ⁵ | 86.28 | 6.76 | 79.52 | -- | -- | -- | -- | 810 | <0.5 | <0.5 | <0.5 | 1 | <0.5 |
| 08/07/09 ⁵ | 86.28 | 9.17 | 77.11 | -- | -- | -- | -- | 900 | 4 | 0.9 | 3 | 3 | <0.5 |
| 01/29/10 ⁵ | 86.28 | 6.57 | 79.71 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/11/10 ⁵ | 86.28 | 8.61 | 77.67 | -- | -- | -- | -- | 1,800 | 9 | 2 | 6 | 5 | <0.5 |

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (msl) | TOTAL TPH (µg/L) | TPH-MO (µg/L) | O&G (µg/L) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MtBE (µg/L) |
|-----------------------------|---------------|--------------|--------------|---|---|-------------------------------|-----------------------------|--------------------|----------------|----------------|----------------|----------------|------------------------|
| MW-3 (cont) | | | | | | | | | | | | | |
| 2/2/2011 ⁵ | 86.28 | 7.16 | 79.12 | -- | -- | -- | -- | 97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 01/31/12 ⁵ | 86.28 | 7.67 | 78.61 | -- | -- | -- | -- | 720 | 0.9 | <0.5 | <0.5 | 0.9 | <0.5 |
| 02/09/13 ⁵ | 86.28 | 6.87 | 79.41 | 86 ⁶ / <41 ^{6,7,8} | 86 ⁶ / <41 ^{6,7,8} | <1,400/ 2,400 ⁷ | 120/ <50 ^{7,8} | 75 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/24/14 ⁵ | 86.28 | 7.11 | 79.17 | <40 ⁶ | <40 ⁶ | 1,500/ <1,400 ⁷ | <50/ <50 ^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2 |
| 02/04/15 ⁵ | 86.28 | 6.78 | 79.50 | <38 ^{6,7,8} | <38 ^{6,7,8} | -- | <50 ^{7,8} | 84 | 0.8 | <0.5 | <0.5 | 0.7 | <0.5 |
| 01/14/16 ⁵ | 86.28 | 7.06 | 79.22 | 81 ⁶ | 81 ⁶ | -- | 55 ^{7,8} | 400 | 0.7 | <0.5 | <0.5 | 0.6 | <0.5 |
| 02/27/17⁵ | 86.28 | 6.18 | 80.10 | <40⁶ | <40⁶ | -- | <50^{7,8} | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-4 | | | | | | | | | | | | | |
| 08/03/98 | 87.22 | 12.92 | 74.30 | -- | -- | -- | -- | 1,900 | 110 | 12 | <0.5 | 55 | 130 |
| 11/23/98 | 87.22 | 9.40 | 77.82 | -- | -- | -- | -- | 4,080 | 136 | 17.8 | 37.2 | 30.1 | 51.8 |
| 02/08/99 ¹ | 87.22 | 7.82 | 79.40 | -- | -- | -- | -- | 2,900 | 150 | 16 | <5.0 | 15 | 230/30.7 ² |
| 05/07/99 | 87.22 | 7.42 | 79.80 | -- | -- | -- | -- | 6,050 | 161 | <25 | 39.8 | 36.9 | <250/30.2 ² |
| 08/23/99 | 87.22 | 9.39 | 77.83 | -- | -- | -- | -- | 3,930 | 203 | 37.6 | 58.6 | 42.2 | 255 |
| 11/03/99 | 87.22 | 9.81 | 77.41 | -- | -- | -- | -- | 5,350 | 324 | 44.7 | 91.5 | 56.1 | <50 |
| 02/15/00 | 87.22 | 7.72 | 79.50 | -- | -- | -- | -- | 4,080 | 161 | 27.7 | 31.1 | 39.1 | 73.9 |
| 05/12/00 | 87.22 | 7.91 | 79.31 | -- | -- | -- | -- | 3,600 ³ | 170 | 27 | 49 | 64 | 170 |
| 07/31/00 | 87.22 | 8.65 | 78.57 | -- | -- | -- | -- | 2,900 ³ | 160 | 20 | 15 | 56 | 170 |
| 10/30/00 | 87.22 | 9.08 | 78.14 | -- | -- | -- | -- | 5,630 ⁴ | 301 | 17.8 | 11.8 | 51.5 | <25.0 |
| 02/27/01 | 87.22 | 7.30 | 79.92 | -- | -- | -- | -- | 2,140 ³ | 95.1 | 12.8 | 53.4 | 43.0 | 235 |
| 05/15/01 | 87.22 | 8.15 | 79.07 | -- | -- | -- | -- | 4,580 ³ | 200 | 44.1 | 46.3 | 51.7 | 172 |
| 08/23/01 | 87.22 | 9.33 | 77.89 | -- | -- | -- | -- | 2,700 | 250 | 44 | 21 | 72 | 130 |
| 02/25/02 | 87.22 | 7.80 | 79.42 | -- | -- | -- | -- | 4,100 | 100 | 18 | 27 | 39 | <10 |
| 08/05/02 | 87.22 | 7.10 | 80.12 | -- | -- | -- | -- | 4,100 | 130 | 18 | 50 | 20 | <10 |
| 02/11/03 | 87.22 | 8.12 | 79.10 | -- | -- | -- | -- | 4,100 | 100 | 23 | 20 | 51 | <50 |
| 08/09/03 ⁵ | 87.22 | 9.55 | 77.67 | -- | -- | -- | -- | 3,700 | 110 | 24 | 10 | 45 | 8 |
| 02/25/04 ⁵ | 87.22 | 8.06 | 79.16 | -- | -- | -- | -- | 5,400 | 94 | 28 | 34 | 49 | 5 |
| 08/23/04 ⁵ | 87.22 | 10.19 | 77.03 | -- | -- | -- | -- | 5,100 | 100 | 26 | 7 | 43 | 5 |
| 02/11/05 ⁵ | 87.22 | 7.97 | 79.25 | -- | -- | -- | -- | 3,900 | 58 | 16 | 25 | 16 | 2 |
| 08/15/05 ⁵ | 87.22 | 8.82 | 78.40 | -- | -- | -- | -- | 2,400 | 76 | 16 | 11 | 26 | 3 |
| 02/10/06 ⁵ | 87.22 | 7.81 | 79.41 | -- | -- | -- | -- | 1,600 | 68 | 16 | 8 | 27 | 4 |
| 08/10/06 ⁵ | 87.22 | 8.58 | 78.64 | -- | -- | -- | -- | 2,500 | 100 | 19 | 5 | 30 | 3 |
| 02/09/07 ⁵ | 87.22 | 8.71 | 78.51 | -- | -- | -- | -- | 6,200 | 200 | 39 | 16 | 52 | 3 |
| 08/23/07 ⁵ | 87.22 | 10.38 | 76.84 | -- | -- | -- | -- | 5,800 | 190 | 48 | 20 | 61 | 3 |
| 02/18/08 ⁵ | 87.22 | 8.11 | 79.11 | -- | -- | -- | -- | 4,900 | 110 | 24 | 11 | 32 | 2 |
| 08/12/08 ⁵ | 87.22 | 10.58 | 76.64 | -- | -- | -- | -- | 6,100 | 180 | 31 | 9 | 52 | 3 |
| 02/19/09 ⁵ | 87.22 | 7.72 | 79.50 | -- | -- | -- | -- | 2,900 | 84 | 20 | 5 | 24 | 2 |
| 08/07/09 ⁵ | 87.22 | 10.42 | 76.80 | -- | -- | -- | -- | 4,900 | 120 | 34 | 11 | 36 | 2 |

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (msl) | TOTAL TPH (µg/L) | TPH-MO (µg/L) | O&G (µg/L) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MtBE (µg/L) |
|-----------------------------|---------------|--------------|--------------|--|--|--------------------------------|--------------------------------|-------------------|-------------|-------------|-------------|-------------|----------------|
| MW-4 (cont) | | | | | | | | | | | | | |
| 01/29/10 ⁵ | 87.22 | 8.02 | 79.20 | -- | -- | -- | -- | 3,800 | 49 | 15 | 4 | 17 | 1 |
| 08/11/10 ⁵ | 87.22 | 10.19 | 77.03 | -- | -- | -- | -- | 5,400 | 110 | 36 | 11 | 36 | 1 |
| 2/2/2011 ⁵ | 87.22 | 8.65 | 78.57 | -- | -- | -- | -- | 3,800 | 76 | 29 | 16 | 31 | 1 |
| 01/31/12 ⁵ | 87.22 | 9.24 | 77.98 | -- | -- | -- | -- | 6,700 | 110 | 32 | 7 | 34 | 1 |
| 02/09/13 ⁵ | 87.22 | 8.14 | 79.08 | 300 ^{6,9} / <40 ^{6,7} | 300 ^{6,9} / <40 ^{6,7} | <1,400/ 1,900 ⁷ | 2,300/ 1,500 ^{7,8} | 1,800 | 77 | 17 | 4 | 10 | 0.8 |
| 02/24/14 ⁵ | 87.22 | 9.50 | 77.72 | 92 ⁶ | 92 ⁶ | <1,400/ <1,400 ⁷ | 1,200/ 720 ^{7,8} | 6,000 | 80 | 29 | 9 | 30 | <2 |
| 02/04/15 ⁵ | 87.22 | 8.60 | 78.62 | <38 ^{6,7,8} | <38 ^{6,7,8} | -- | 290 ^{7,8} | 2,300 | 43 | 15 | 5 | 11 | <0.5 |
| 01/14/16 ⁵ | 87.22 | 9.30 | 77.92 | 150 ⁶ | 150 ⁶ | -- | 540 ^{7,8} | 4,300 | 27 | 12 | 3 | 10 | <3 |
| 02/27/17⁵ | 87.22 | 7.48 | 79.74 | 66⁶ | 66⁶ | -- | 190^{7,8} | 2,400 | 33 | 14 | 4 | 11 | <0.5 |
| TRIP BLANK | | | | | | | | | | | | | |
| 08/03/98 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 11/23/98 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 |
| 02/08/99 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 05/07/99 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 08/23/99 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 11/03/99 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/15/00 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 05/12/00 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 07/31/00 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 10/30/00 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.50 | <2.50 |
| 02/27/01 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 |
| 05/15/01 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.50 |
| 08/23/01 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| QA | | | | | | | | | | | | | |
| 02/25/02 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 08/05/02 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 02/11/03 | -- | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 08/09/03 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/25/04 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/04 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/11/05 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/15/05 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/10/06 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/02/06 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/09/07 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/23/07 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/18/08 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Table 2
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Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (msl) | TOTAL TPH (µg/L) | TPH-MO (µg/L) | O&G (µg/L) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MfBE (µg/L) |
|-----------------------------|---------------|--------------|--------------|---------------------|------------------|---------------|-------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| QA (cont) | | | | | | | | | | | | | |
| 08/12/08 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/19/09 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 08/07/09 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/09/13 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/24/14 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2 |
| 02/04/15 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 01/14/16 ⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/27/17⁵ | -- | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 12, 2000 were compiled from reports prepared by Blaine Tech Services, Inc. Groundwater monitoring data and laboratory analytical results from May 12, 2000 to May 12, 2012 were provided by Gettler-Ryan Inc. 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

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH = Total Petroleum Hydrocarbons

DRO = Diesel Range Organics

MO = Motor Oil

GRO = Gasoline Range Organics

O&G = Oil and Grease (n-Hexane Extractable Material)

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (sum of m+p and o)

MtBE = Methyl tertiary-butyl ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations are referenced to msl.

¹ Chromatogram pattern indicates gas and an unidentified hydrocarbon.

² Confirmation run.

³ Laboratory report indicates gasoline C₆-C₁₂.

⁴ Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

⁵ BTEX and MtBE by EPA Method 8260.

⁶ TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C₈ (n-octane) through C₄₀ (n-tetracontane) normal hydrocarbons.

⁷ Analyzed with silica gel cleanup.

⁸ Laboratory report indicates the reverse surrogate, capric acid, is present at <1%.

⁹ Laboratory report indicates the surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
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) |
|--------------------------|---------------------------|-----------------------|------------------------|------------------------|------------------------|---------------------------|---------------------------|
| MW-1 | | | | | | | |
| 05/10/12 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/09/13 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/24/14 | <500 | <100 | <2 | <2 | <2 | <2 | <2 |
| 02/04/15 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-3 | | | | | | | |
| 02/09/13 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/24/14 | <500 | <100 | <2 | <2 | <2 | <2 | <2 |
| 02/04/15 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-4 | | | | | | | |
| 02/09/13 | <50 | 5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 02/24/14 | <500 | <100 | <2 | <2 | <2 | <2 | <2 |
| 02/04/15 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Table 3
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results on May 12, 2012 were provided by Gettler-Ryan Inc.

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

(µg/L) = Micrograms per liter

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 4
Groundwater Analytical Results - PPL Volatiles
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | Acetone (µg/L) | 2-Butanone (µg/L) | n-Butyl- benzene (µg/L) | sec-Butyl- benzene (µg/L) | 2-Chlorotoluene (µg/L) | Isopropyl- benzene (µg/L) | p-Isopropyl- toluene (µg/L) | Naphth- alene (µg/L) | n-Propyl- benzene (µg/L) | 1,3,5-Trimethyl- benzene (µg/L) | Diethylphthalate (µg/L) |
|-----------------------|-------------------|----------------------|-------------------------------|---------------------------------|---------------------------|---------------------------------|-----------------------------------|----------------------------|--------------------------------|---------------------------------------|----------------------------|
| MW-1 | | | | | | | | | | | |
| 05/10/12 | <6 | <3 | <1 | <1 | <1 | <1 | <1 | 7 | <1 | <1 | 2 |
| 02/09/13 | <6 | <3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | -- |
| 02/24/14 | <6 | <3 | <1 | <1 | <1 | <2 | <1 | <2 | <1 | <1 | -- |
| 02/04/15 | <6 | <3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | -- |
| 01/14/16 | -- | -- | -- | -- | -- | -- | -- | <1 | -- | -- | -- |
| 02/27/17 | -- | -- | -- | -- | -- | -- | -- | <1 | -- | -- | -- |
| MW-3 | | | | | | | | | | | |
| 02/09/13 | <6 | <3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | -- |
| 02/24/14 | <6 | <3 | <1 | <1 | <1 | <2 | <1 | <2 | <1 | <1 | -- |
| 02/04/15 | <6 | <3 | <1 | <1 | <1 | 1 | <1 | <1 | 2 | <1 | -- |
| 01/14/16 | -- | -- | -- | -- | -- | -- | -- | <1 | -- | -- | -- |
| 02/27/17 | -- | -- | -- | -- | -- | -- | -- | <1 | -- | -- | -- |
| MW-4 | | | | | | | | | | | |
| 02/09/13 | 13 | 5 | <1 | 1 | <1 | 14 | 1 | <1 | 7 | <1 | -- |
| 02/24/14 | 20 | <3 | 5 | 7 | 2 | 44 | 7 | <2 | 35 | 2 | -- |
| 02/04/15 ¹ | 12 | <3 | 2 | 4 | <1 | 24 | 2 | 1 | 18 | <1 | -- |
| 01/14/16 | -- | -- | -- | -- | -- | -- | -- | <5 | -- | -- | -- |
| 02/27/17 | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- |

Table 4
Groundwater Analytical Results - PPL Volatiles
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results on May 12, 2012 were provided by Gettler-Ryan Inc.

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

Only constituents with currently or historically detected concentrations are shown. Complete analytical results for the current monitoring period can be found in Attachment B.

(µg/L) = Micrograms per liter

PPL = priority pollutant list

-- = Not Measured/Not Analyzed

¹ Laboratory report indicates the LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC standards. The following analytes are accepted based on this allowance: Acetone.

Table 5
Groundwater Analytical Results - Metals
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | Cadmium (µg/L) | Chromium (µg/L) | Lead (µg/L) | Nickel (µg/L) | Zinc (µg/L) |
|--------------------------|---------------------------|----------------------------|------------------------|--------------------------|------------------------|
| MW-1 | | | | | |
| 05/10/12 | <0.27 | 153 | 92.3 | 195 | 154 |
| 02/09/13 | <0.36 | 37.7 | 5.4 | 42.0 | 36.1 |
| 02/24/14 | <0.76 | 38.7 | <4.7 | 49.8 | 39.3 |
| 02/04/15 | <0.33 | 9.8 | <4.7 | 10.7 | 18.7 |
| 01/14/16 | <0.64 | 5.5 | <5.1 | 15.8 | 13.9 |
| 02/27/17 | <0.49 | <1.8 | <6.2 | <2.8 | <5.4 |
| MW-3 | | | | | |
| 02/09/13 | <0.36 | 34.6 | 8.4 | 40.6 | 52.1 |
| 02/24/14 | <0.76 | 30.3 | 6.0 | 38.3 | 41.6 |
| 02/04/15 | <0.33 | 5.7 | <4.7 | 12.9 | 12.7 |
| 01/14/16 | <0.64 | 5.2 | 5.1 | 10.3 | 30.4 |
| 02/27/17 | <0.49 | <1.8 | <6.2 | 3.6 | 7.3 |
| MW-4 | | | | | |
| 02/09/13 | 0.49 | 54.7 | 17.5 | 145 | 664 |
| 02/24/14 | <0.76 | 22.5 | <4.7 | 57.6 | 69.9 |
| 02/04/15 | <0.33 | 8.8 | <4.7 | 55.1 | 47.2 |
| 01/14/16 | <0.64 | 13.6 | <5.1 | 129 | 55.4 |
| 02/27/17 | <0.49 | <1.8 | <6.2 | <2.8 | <5.4 |

EXPLANATIONS:

(µg/L) = Micrograms per liter

ANALYTICAL METHOD:

Metals by EPA Method 6010B

Table 6
Groundwater Analytical Results - PCBs
Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

| WELL ID/ DATE | PCB- 1016 (µg/L) | PCB- 1221 (µg/L) | PCB- 1232 (µg/L) | PCB- 1242 (µg/L) | PCB- 1248 (µg/L) | PCB- 1254 (µg/L) | PCB- 1260 (µg/L) |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| MW-1 05/10/12 | <0.095 | <0.05 | <0.19 | <0.095 | <0.095 | <0.095 | <0.14 |

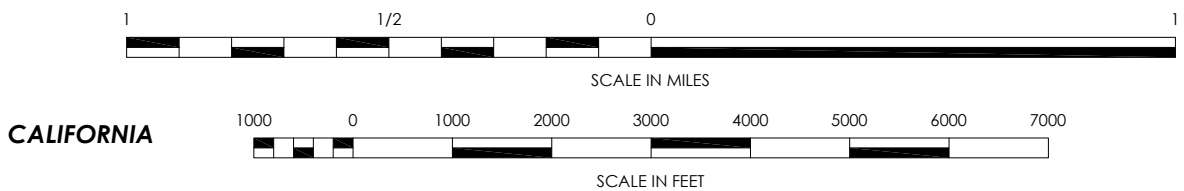
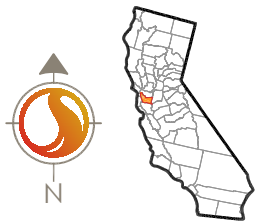
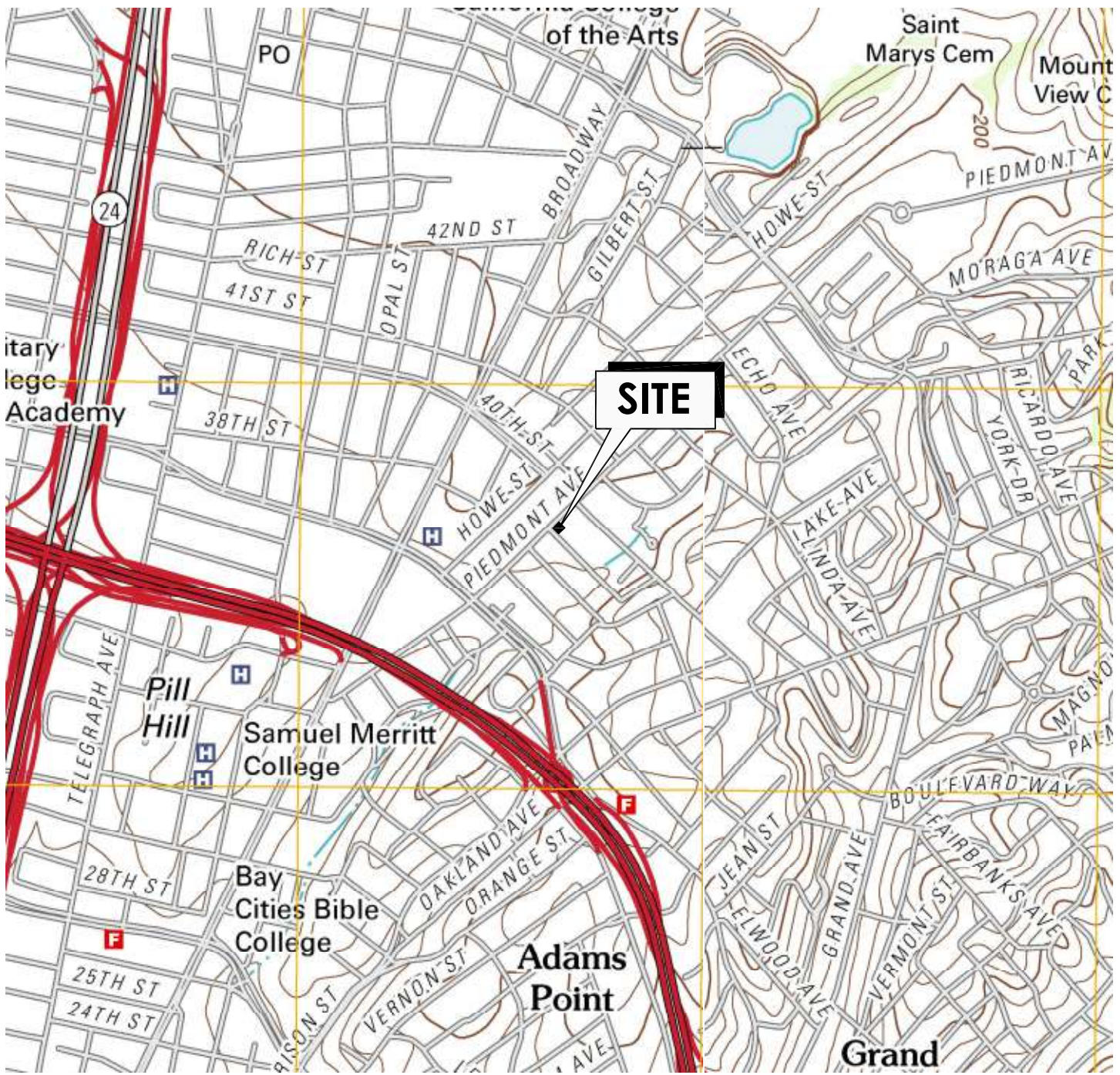
EXPLANATIONS:

(µg/L) = Micrograms per liter
PCB = Polychlorinated Biphenyl


ANALYTICAL METHOD:

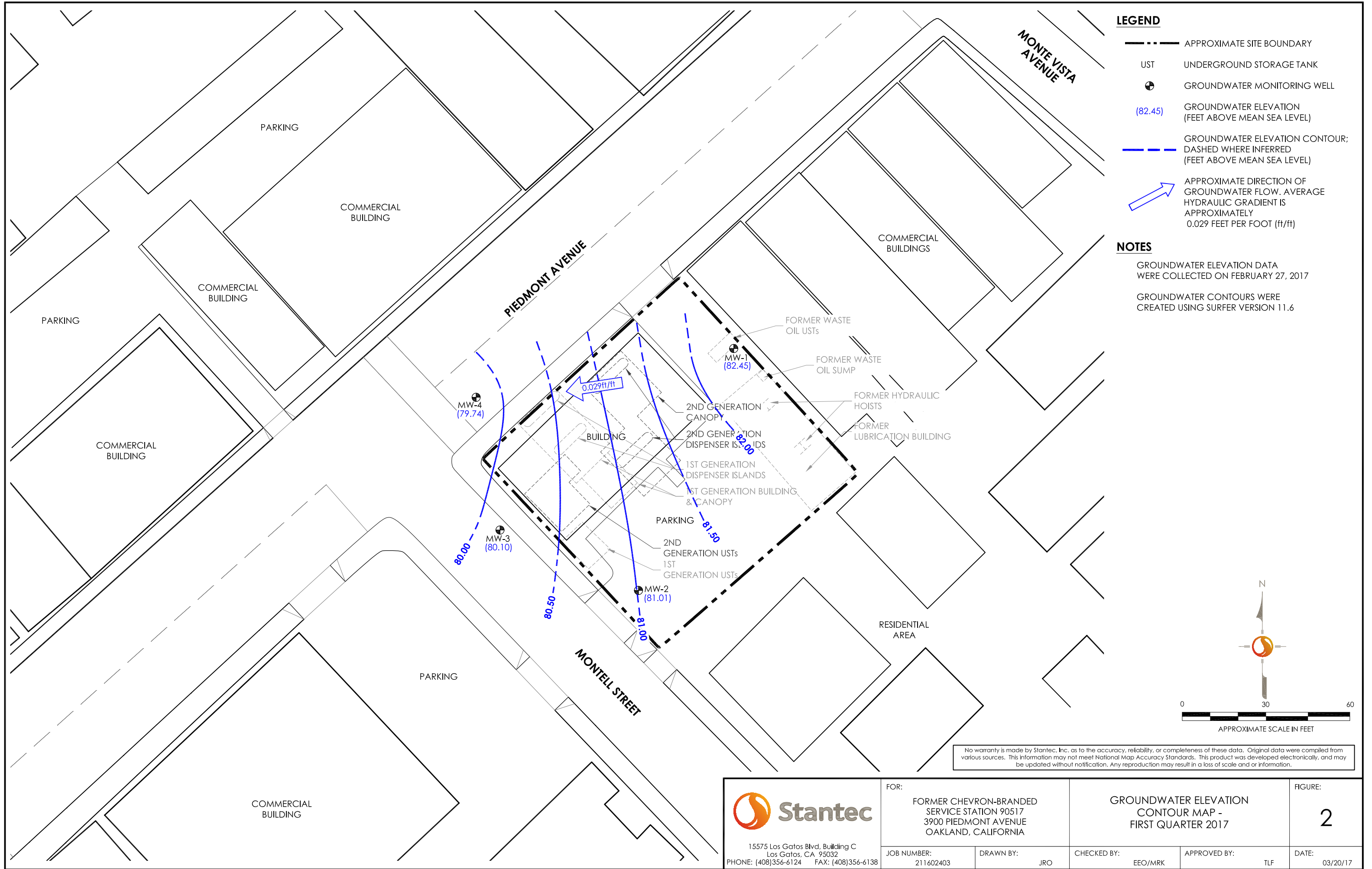
PCBs by EPA Method 8082

FIGURES

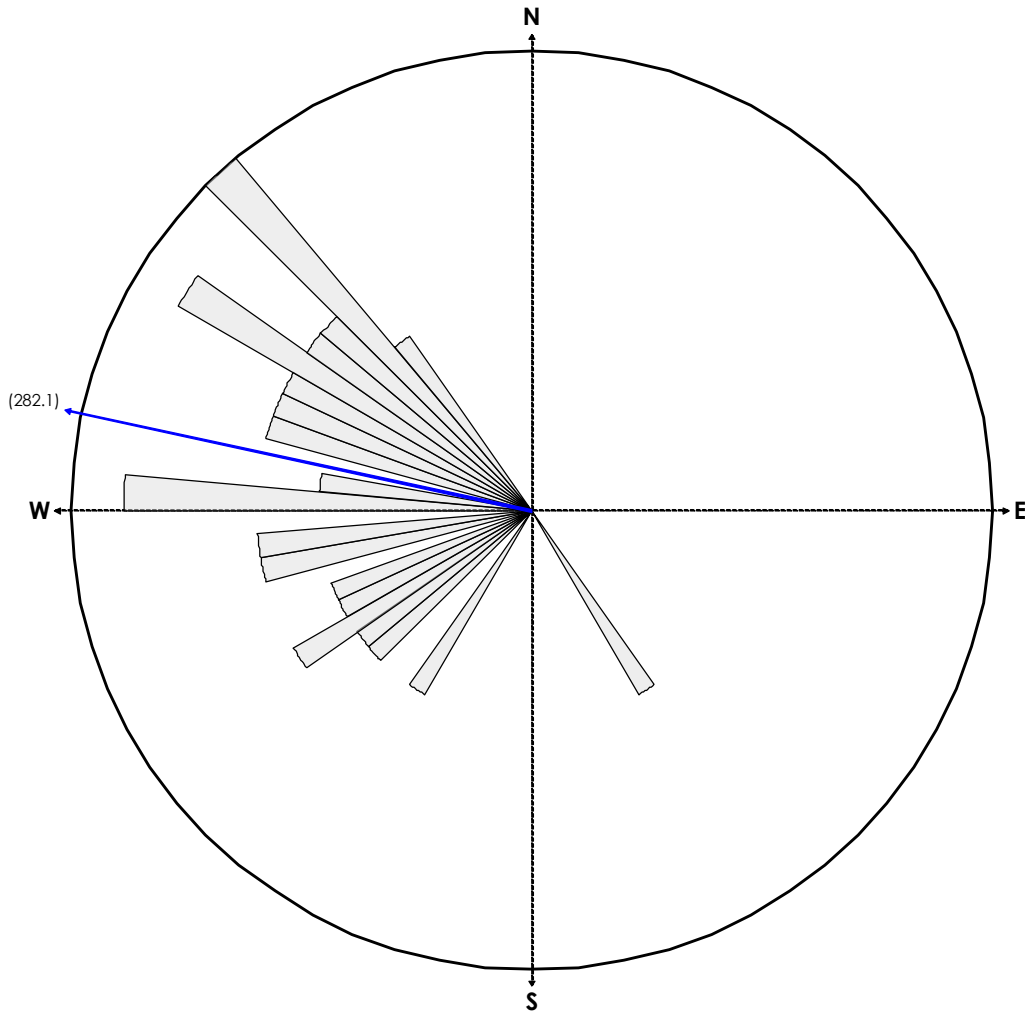


REFERENCE: USGS 7.5 MINUTE QUADRANGLES;
 OAKLAND WEST, CALIFORNIA; 2012 AND OAKLAND EAST, CALIFORNIA; 2012

| | | | | |
|--|--|-------------------|------------------------|---------------------|
|  15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138 | FOR: FORMER CHEVRON-BRANDED SERVICE STATION 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA | SITE LOCATION MAP | | FIGURE: 1 |
| | JOB NUMBER: 211602403 | DRAWN BY: JRO | CHECKED BY: EEO/MRK | APPROVED BY: TLF |



| | | | | |
|---|---|---|--------------------------------|-----------------------------|
| <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 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA</p> | <p>GROUNDWATER ELEVATION CONTOUR MAP - FIRST QUARTER 2017</p> | | <p>FIGURE: 2</p> |
| | <p>JOB NUMBER: 211602403</p> | <p>DRAWN BY: JRO</p> | <p>CHECKED BY: EEO/MRK</p> | <p>APPROVED BY: TLF</p> |

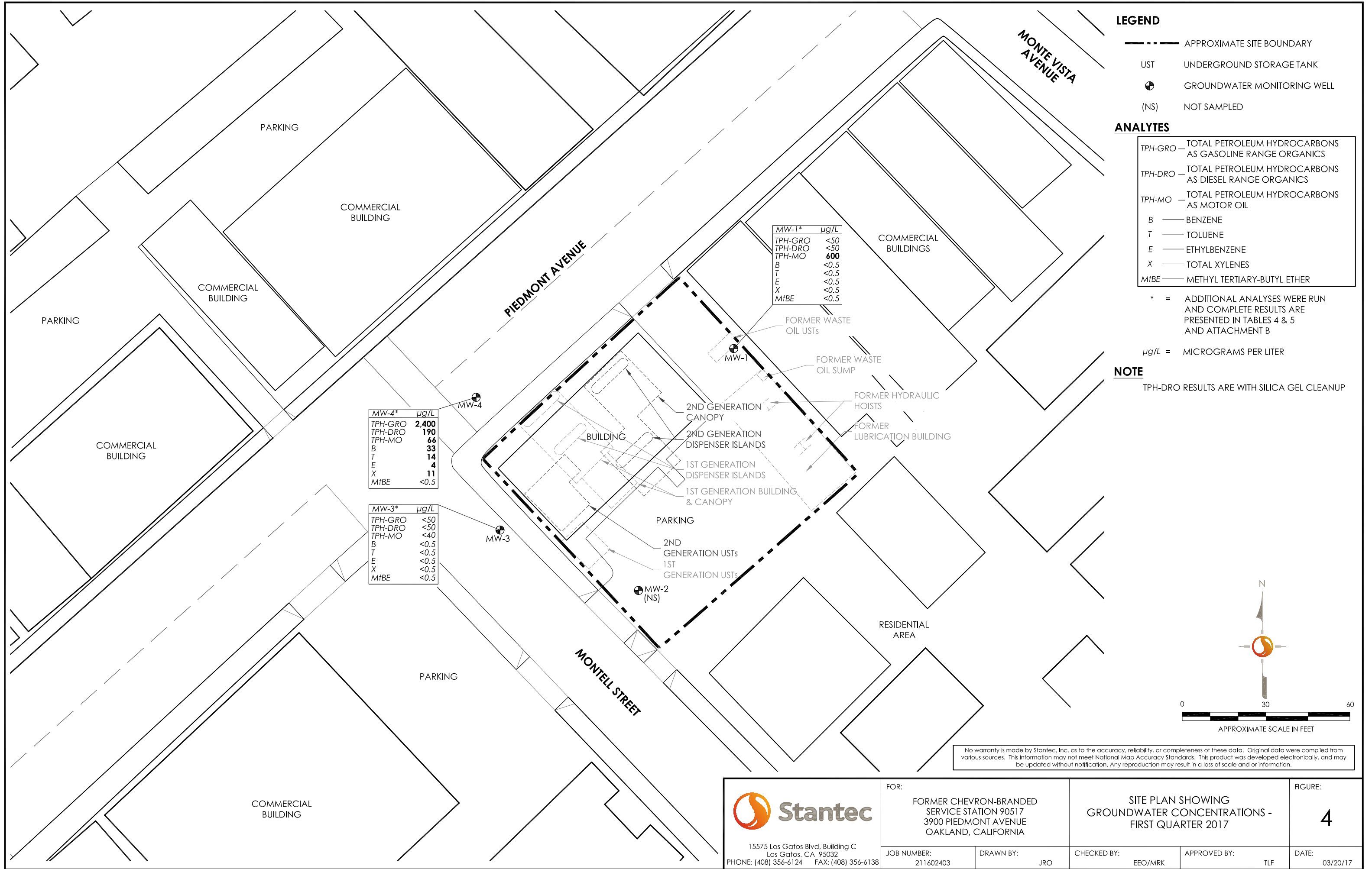


EQUAL AREA PLOT

Number of Points 37
 Class Size 5
 Vector Mean 282.10
 Vector Magnitude 30.65
 Consistency Ratio 0.83

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING THIRD QUARTER 1998.

| | | | | | |
|--|--|------------------|--|---------------------|---------------------|
|  15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138 | FOR: FORMER CHEVRON-BRANDED SERVICE STATION 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA | | GROUNDWATER FLOW DIRECTION ROSE DIAGRAM - FIRST QUARTER 2017 | | FIGURE: 3 |
| | JOB NUMBER: 211602403 | DRAWN BY: JRO | CHECKED BY: EEO/MRK | APPROVED BY: TLF | DATE: 03/20/17 |



LEGEND

- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- (NS) NOT SAMPLED

ANALYTES

- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
- TPH-DRO — TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
- TPH-MO — TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- MtBE — METHYL TERTIARY-BUTYL ETHER

* = ADDITIONAL ANALYSES WERE RUN AND COMPLETE RESULTS ARE PRESENTED IN TABLES 4 & 5 AND ATTACHMENT B

µg/L = MICROGRAMS PER LITER

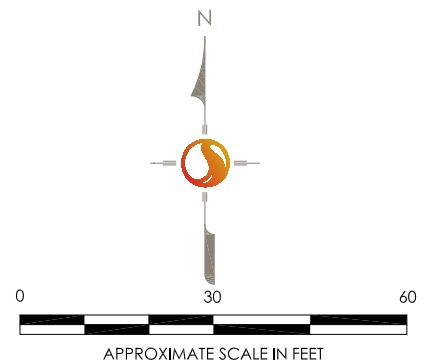
NOTE

TPH-DRO RESULTS ARE WITH SILICA GEL CLEANUP

| MW-4* | µg/L |
|---------|-------|
| TPH-GRO | 2,400 |
| TPH-DRO | 190 |
| TPH-MO | 66 |
| B | 33 |
| T | 14 |
| E | 4 |
| X | 11 |
| MtBE | <0.5 |

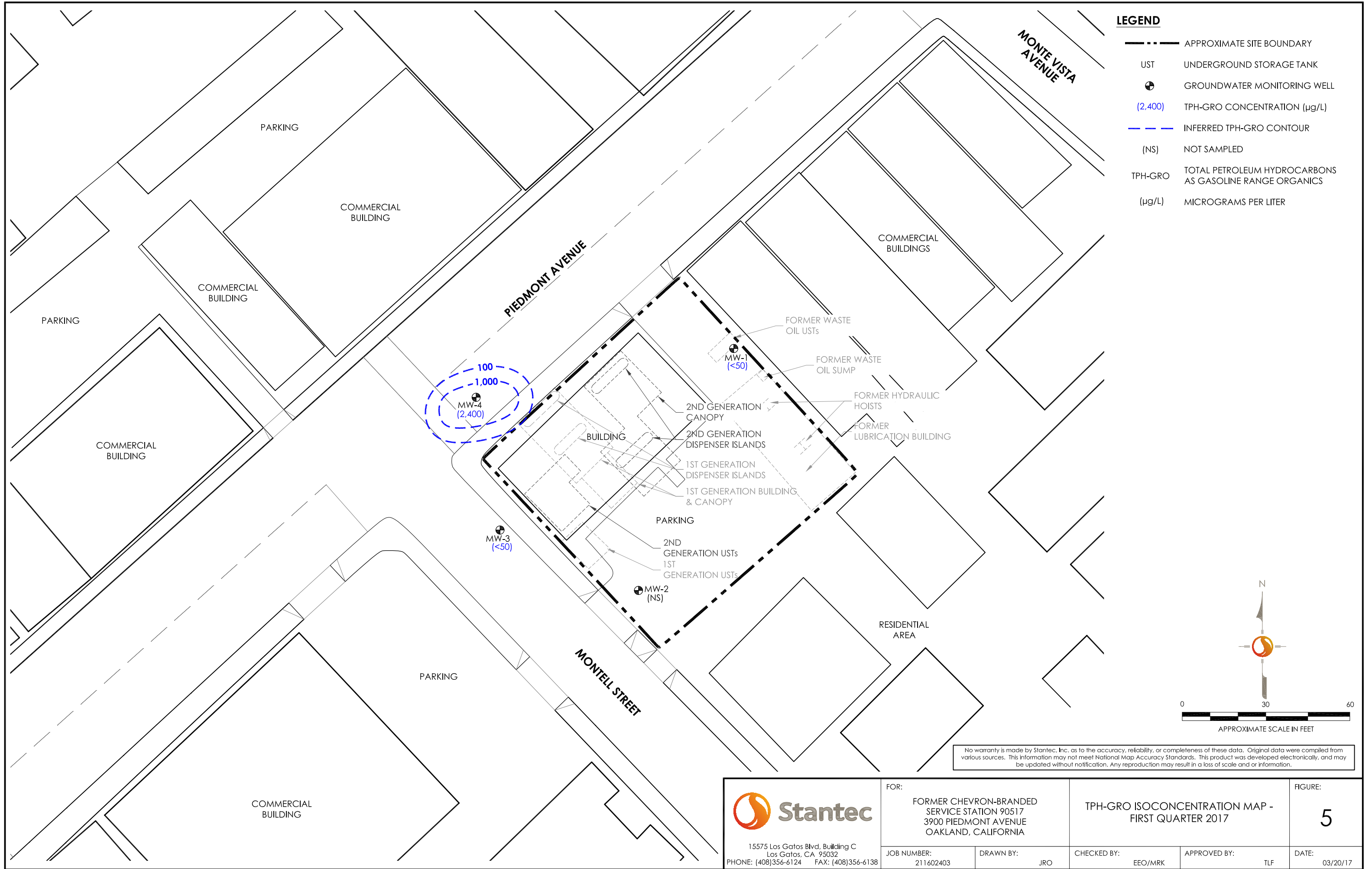
| MW-3* | µg/L |
|---------|------|
| TPH-GRO | <50 |
| TPH-DRO | <50 |
| TPH-MO | <40 |
| B | <0.5 |
| T | <0.5 |
| E | <0.5 |
| X | <0.5 |
| MtBE | <0.5 |

| MW-1* | µg/L |
|---------|------|
| TPH-GRO | <50 |
| TPH-DRO | <50 |
| TPH-MO | 600 |
| B | <0.5 |
| T | <0.5 |
| E | <0.5 |
| X | <0.5 |
| MtBE | <0.5 |

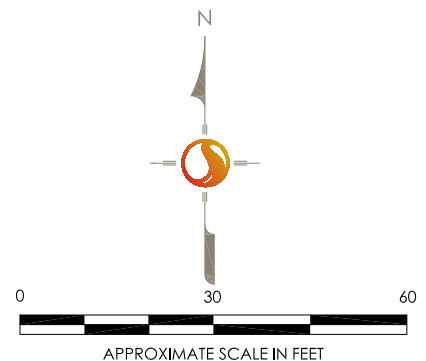


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|---|---|--|--------------------------------|-----------------------------|-----------------------------|
| <p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138</p> | <p>FOR: FORMER CHEVRON-BRANDED SERVICE STATION 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA</p> | <p>SITE PLAN SHOWING GROUNDWATER CONCENTRATIONS - FIRST QUARTER 2017</p> | | | <p>FIGURE: 4</p> |
| | <p>JOB NUMBER: 211602403</p> | <p>DRAWN BY: JRO</p> | <p>CHECKED BY: EEO/MRK</p> | <p>APPROVED BY: TLF</p> | <p>DATE: 03/20/17</p> |

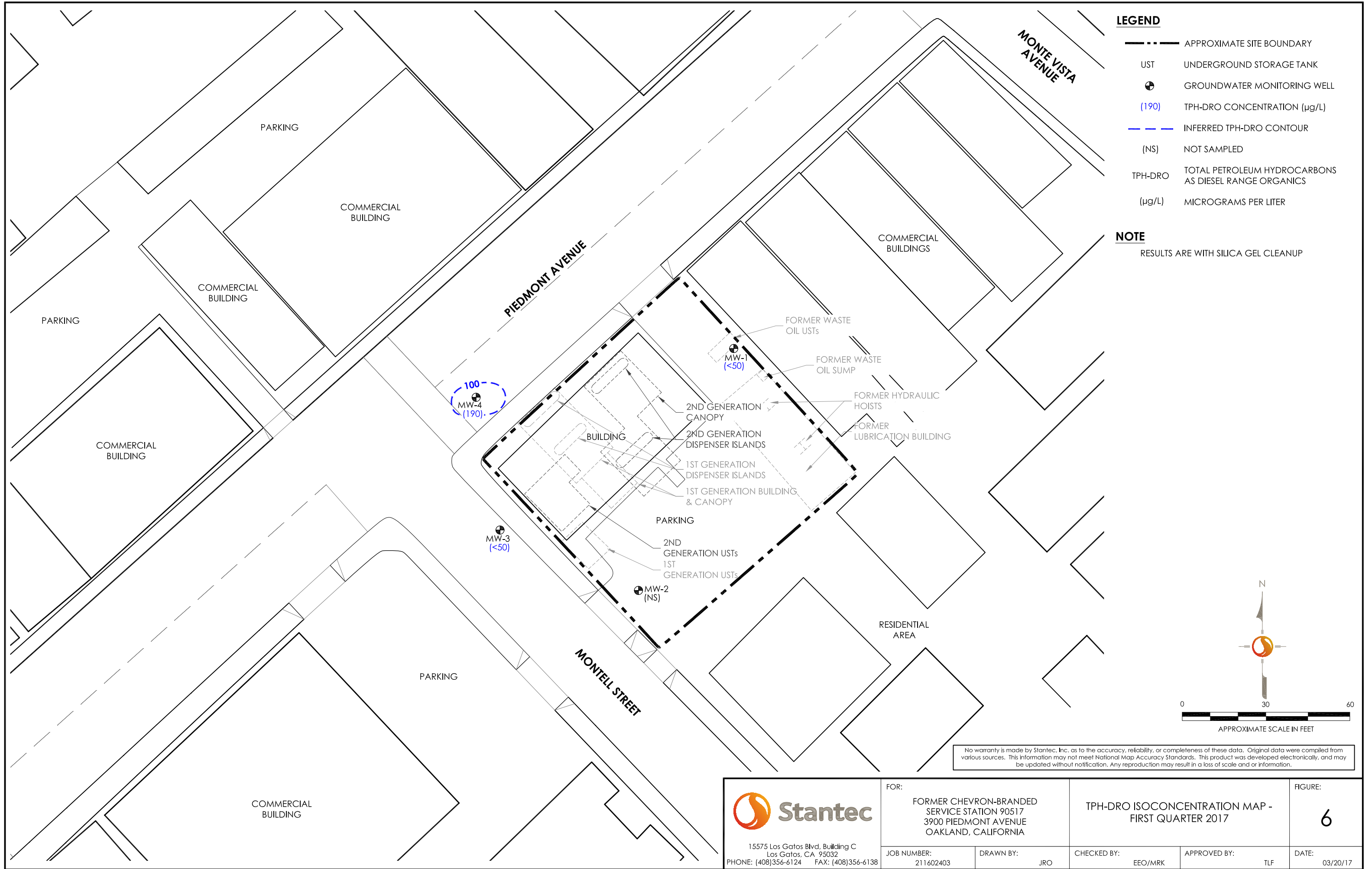


- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - (2,400) TPH-GRO CONCENTRATION (µg/L)
 - INFERRED TPH-GRO CONTOUR
 - (NS) NOT SAMPLED
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
 - (µg/L) MICROGRAMS PER LITER



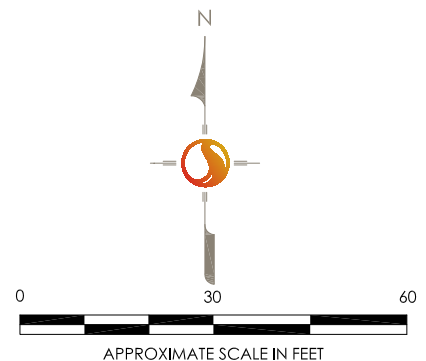
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|  15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408)356-6124 FAX: (408)356-6138 | FOR: FORMER CHEVRON-BRANDED SERVICE STATION 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA | TPH-GRO ISOCONCENTRATION MAP - FIRST QUARTER 2017 | | FIGURE: 5 |
| | JOB NUMBER: 211602403 | DRAWN BY: JRO | CHECKED BY: EEO/MRK | APPROVED BY: TLF |



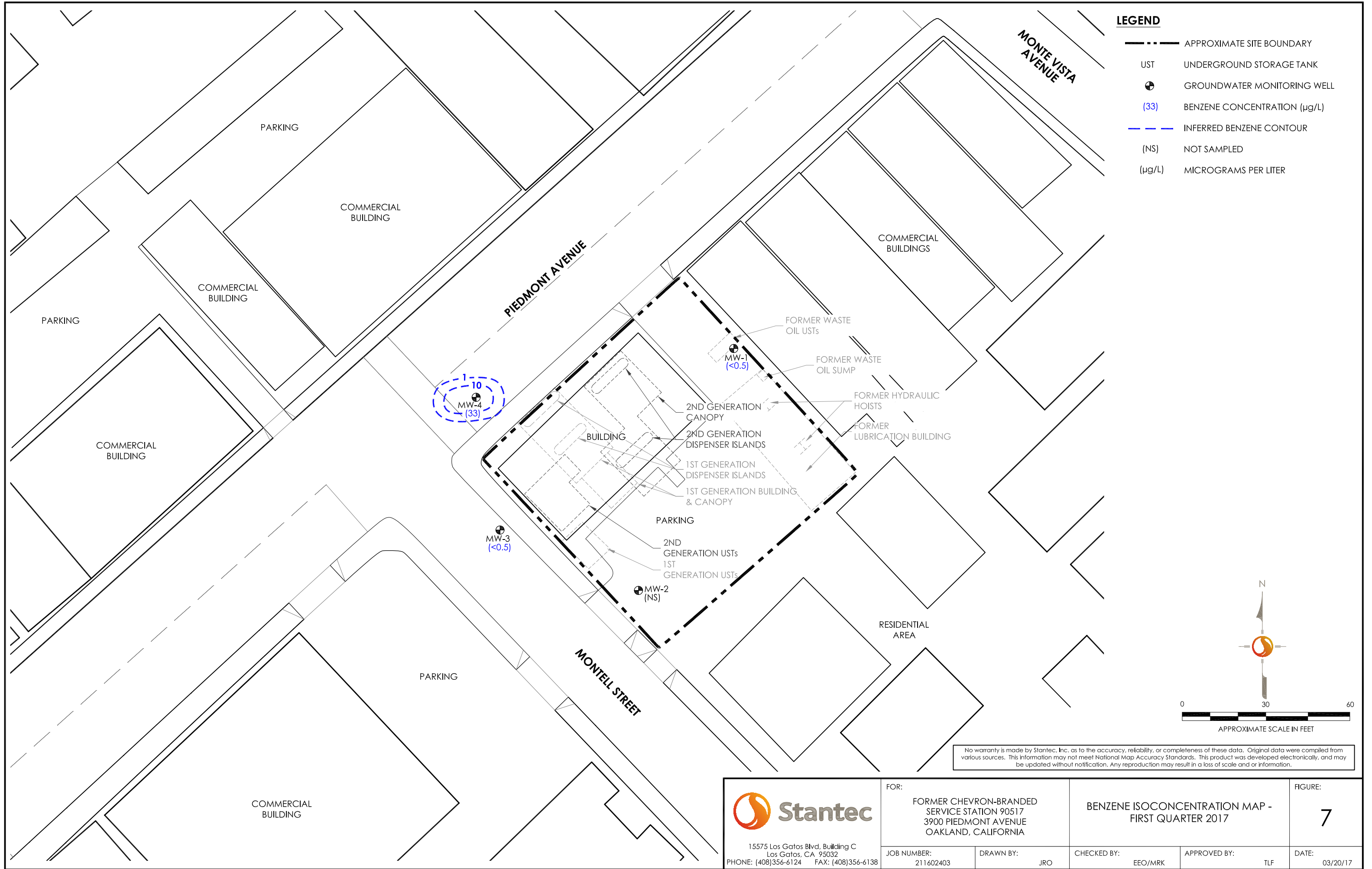
- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - (190) TPH-DRO CONCENTRATION (µg/L)
 - INFERRED TPH-DRO CONTOUR
 - (NS) NOT SAMPLED
 - TPH-DRO TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
 - (µg/L) MICROGRAMS PER LITER

NOTE
RESULTS ARE WITH SILICA GEL CLEANUP



No warranty is made by Stantec, Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

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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 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA | | TPH-DRO ISOCONCENTRATION MAP - FIRST QUARTER 2017 | | FIGURE: 6 |
| | JOB NUMBER: 211602403 | DRAWN BY: JRO | CHECKED BY: EEO/MRK | APPROVED BY: TLF | DATE: 03/20/17 |



| | | | | | |
|---|-------------|---|-------------|--------------|----------|
| <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 90517 3900 PIEDMONT AVENUE OAKLAND, CALIFORNIA | | FIGURE: | 7 |
| | JOB NUMBER: | DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
| | 211602403 | JRO | EEO/MRK | TLF | 03/20/17 |

ATTACHMENT A

**Gettler-Ryan Inc. Field Data Sheets and Standard
Operating Procedures – First Quarter 2017**



GETTLER-RYAN INC.



TRANSMITTAL

March 8, 2017
G-R #17156420

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, Ste. G
Dublin, California 94568

RE: **Former Chevron Service Station
#9-0517
3900 Piedmont Avenue
Oakland, California
RO 0000138**

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DESCRIPTION |
|---------|--|
| VIA PDF | Groundwater Monitoring and Sampling Data Package Annual Event of February 27, 2017 |

COMMENTS:

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

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

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

trans/9-0517

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #9-0517**

Site Address: **3900 Piedmont Avenue**

City: **Oakland, CA**

Job #: **17156420**

Event Date: **2-27-17**

Sampler: **ML**

| WELL ID | Vault Frame Condition | Gasket/ O-Ring (M) Missing (R) Replaced | Bolts (M) Missing (R) Replaced | Bolt Flanges B=Broken S=Stripped R=Retaped | Apron Condition C=Cracked B=Broken G=Gone | Grout Seal (Deficient) Inches from TOC | Casing (Condition prevents tight cap seal) | REPLACE LOCK Y/N | REPLACE CAP Y/N | WELL VAULT Manufacture/Size/ # of Bolts | Pictures Taken Y/N |
|---------|-----------------------------|--|--------------------------------------|---|---|---|---|------------------------|-----------------------|--|--------------------------|
| MW-1 | OK | → | → | | | → | | N | N | B.L. / 8" / 3 | |
| MW-2 | OK | → | → | 1-S | OK | → | | ↓ | ↓ | Morrison | |
| MW-3 | OK | → | → | 3-S | OK | → | | ↓ | ↓ | | |
| MW-4 | OK | → | → | 2-S | OK | → | | ↓ | ↓ | MORRISON / 6" / 2 | |
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Comments _____

STANDARD OPERATING PROCEDURE, LOW-FLOW PURGING AND SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "*Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures.*"

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

Initial Pump Discharge Test Procedures

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet. Total well depths are measured annually.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T ($\pm 10\%$), pH (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. 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. 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. 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.

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 LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 17156420
 Event Date: 2-27-17 (inclusive)
 Sampler: m

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 11.61 ft.
 Depth to Water: 5.44 ft.
11.17 xVF = _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 2-27-17

| | | | | |
|--------------------|------------|----------|----------|-----------|
| 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.

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump X
 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): 0915 Weather Conditions: Sunny
 Sample Time/Date: 0945 / 2-27-17 Water Color: Clear Odor: 0 N 1 gwt
 Approx. Flow Rate: 200 u lpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: 5.84

| Time (2400 hr.) | Volume (Liters) | pH | Conductivity (µS mS µmhos/cm) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) | Gauge DTW as parameters are recorded |
|-----------------|-----------------|-------------|-------------------------------|---------------------|-------------|----------|--------------------------------------|
| <u>0933</u> | <u>3.6</u> | <u>7.20</u> | <u>902</u> | <u>15.5</u> | | | <u>5.51</u> |
| <u>0936</u> | <u>4.2</u> | <u>7.24</u> | <u>911</u> | <u>15.6</u> | | | <u>5.52</u> |
| <u>0939</u> | <u>4.8</u> | <u>7.25</u> | <u>914</u> | <u>15.6</u> | | | <u>5.54</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|--------------------|---------|---------------|------------|--|
| MW-1 | 6 x vov vial | YES | HCL | EUROFINS | TPH-GRO(8015)/BTEX+MTBE(8260)/NAPHTHALENE(8260B) |
| | 2 x 500ml ambers | YES | NP | EUROFINS | TPH-DRO w/sgc COLUMN |
| | 2 x 1 liter ambers | YES | NP | EUROFINS | TPH-MO w/sgc(8015) |
| | 1 x 250ml poly | YES | HNO3 | EUROFINS | CAM 5 METALS(6010B) |

COMMENTS: DEPTH PUMP SET AT: ~ 11.00 feet

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 17156420
 Event Date: 2-27-11 (inclusive)
 Sampler: ML

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 16.55 ft.
 Depth to Water: 5.08 ft.
11.47 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 2-27-11

| | | | | |
|--------------------|-------------|-----------|-----------|------------|
| 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.

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

Purge Equipment:

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

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): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ lpm Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: _____

| Time (2400 hr.) | Volume (Liters) | pH | Conductivity (μ S / mS μ mhos/cm) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) | Gauge DTW as parameters are recorded |
|-----------------|-----------------|-------|--|---------------------|-------------|----------|--------------------------------------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|------------------|---------|---------------|------------|--|
| MW- | x voa vial | YES | HCL | EUROFINS | TPH-GRO(8015)/BTEX+MTBE(8260)/NAPHTHALENE(8260B) |
| | x 500ml ambers | YES | NP | EUROFINS | TPH-DBO w/sgc COLUMN |
| | x 1 liter ambers | YES | NP | EUROFINS | TPH-MO w/sgc(8015) |
| | x 250ml poly | YES | HNO3 | EUROFINS | CAM 5 METALS(6010B) |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: DEPTH PUMP SET AT: _____ M/O

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 17156420
 Site Address: 3900 Piedmont Avenue Event Date: 2-27-17 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: MW-3 Date Monitored: 2-27-17
 Well Diameter: 2 in.
 Total Depth: 17.70 ft.
 Depth to Water: 6.18 ft. Check if water column is less than 0.50 ft.
11.52 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

| | | | | |
|--------------------|------------|----------|----------|-----------|
| 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 |

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump X
 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): 0655 Weather Conditions: Sm ☀
 Sample Time/Date: 0725 / 2-27-17 Water Color: Clear Odor: Y1 (N)
 Approx. Flow Rate: 200 n/min. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: 6.29

| Time (2400 hr.) | Volume (Liters) | pH | Conductivity (mS/cm) | Temperature (°F) | D.O. (mg/L) | ORP (mV) | Gauge DTW as parameters are recorded |
|-----------------|-----------------|-------------|----------------------|------------------|-------------|----------|--------------------------------------|
| <u>0713</u> | <u>3.6</u> | <u>7.11</u> | <u>598</u> | <u>12.3</u> | | | <u>6.26</u> |
| <u>0716</u> | <u>4.2</u> | <u>7.17</u> | <u>602</u> | <u>12.4</u> | | | <u>6.28</u> |
| <u>0719</u> | <u>4.8</u> | <u>7.19</u> | <u>605</u> | <u>12.5</u> | | | <u>6.29</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------------|---------|---------------|------------|---|
| <u>MW-3</u> | <u>6</u> x vov vial | YES | HCL | EUROFINS | TPH-GRO(8015)/BTX+MTBE(8260)/NAPHTHALENE(8260B) |
| | <u>2</u> x 500ml ambers | YES | NP | EUROFINS | TPH-DRO w/sgc COLUMN |
| | <u>2</u> x 1 liter ambers | YES | NP | EUROFINS | TPH-MO w/sgc(8015) |
| | <u>1</u> x 250ml poly | YES | HNO3 | EUROFINS | CAM 5 METALS(8010B) |

COMMENTS: DEPTH PUMP SET AT: ~ 12.00 feet

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 17156420
 Site Address: 3900 Piedmont Avenue Event Date: 2-27-17 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: MW-4 Date Monitored: 2-27-17
 Well Diameter: 2 in.
 Total Depth: 16.25 ft.
 Depth to Water: 7.48 ft. Check if water column is less than 0.50 ft.
8.77 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump X
 QED Bladder Pump _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump X
 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): 0800 Weather Conditions: Sun
 Sample Time/Date: 0830 / 2-27-17 Water Color: Clear Odor: NO STRONG
 Approx. Flow Rate: 200 lpm. Sediment Description: none
 Did well de-water? No If yes, Time: _____ Volume: _____ ltr. DTW @ Sampling: 7.54

| Time (2400 hr.) | Volume (Liters) | pH | Conductivity (µS/mS µmhos/cm) | Temperature (°F) | D.O. (mg/L) | ORP (mV) | Gauge DTW as parameters are recorded |
|-----------------|-----------------|-------------|-------------------------------|------------------|-------------|----------|--------------------------------------|
| <u>0818</u> | <u>3.6</u> | <u>6.89</u> | <u>596</u> | <u>11.6</u> | | | <u>7.53</u> |
| <u>0821</u> | <u>4.2</u> | <u>6.96</u> | <u>607</u> | <u>11.7</u> | | | <u>7.54</u> |
| <u>0824</u> | <u>4.8</u> | <u>6.92</u> | <u>602</u> | <u>11.7</u> | | | <u>7.54</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------------|---------|---------------|------------|--|
| <u>MW-4</u> | <u>6</u> x voa vial | YES | HCL | EUROFINS | TPH-GRO(8015)/BTEX+MTBE(8260)/NAPHTHALENE(8260B) |
| | <u>2</u> x 500ml ambers | YES | NP | EUROFINS | TPH-DRO w/sgc COLUMN |
| | <u>2</u> x 1 liter ambers | YES | NP | EUROFINS | TPH-MO w/sgc(8015) |
| | <u>1</u> x 250ml poly | YES | HNO3 | EUROFINS | CAM 5 METALS(6010B) |

COMMENTS: DEPTH PUMP SET AT: 212.00 feet

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

Chevron California Region Analysis Request/Chain of Custody



IL 7546
Lancaster Laboratories
Environmental

Acct. # _____

For Eurofins Lancaster Laboratories Environmental use only

Group # _____ Sample # _____

Instructions on reverse side correspond with circled numbers.

022717-03

| Client Information | | | | Matrix | | | Analyses Requested | | | | | | | | | | | | | | | | |
|---|------------|-----------|------|---|---|--|--|--|----------------------------|------------------|-----------------------------------|------|---------|---|--------------------------------------|----------------|------------|-------------------|-----------------------|---------------|---------------------|----------------------|---------|
| Facility # SS49-0517-OML G-R#17156420 Global ID#T0600102248 WBS | | | | <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 checked="" type="checkbox"/> 8260 8015 <input type="checkbox"/> 8260 TPH-GRO <input checked="" type="checkbox"/> 8015 TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input checked="" type="checkbox"/> | 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method | TPH-MO (8015) NAPHTHALENE (8260B) CAM 5 METALS (6010B) | Site Address 3900 PIEDMONT AVENUE, 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 | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Mike L. | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Identification | Soil Depth | Collected | | Grab | Composite | Soil | Water | Oil | Total Number of Containers | BTEX + MTBE 8021 | 8015 | 8260 | TPH-GRO | TPH-DRO 8015 without Silica Gel Cleanup | TPH-DRO 8015 with Silica Gel Cleanup | 8260 Full Scan | Oxygenates | Total Lead Method | Dissolved Lead Method | TPH-MO (8015) | NAPHTHALENE (8260B) | CAM 5 METALS (6010B) | Remarks |
| | | Date | Time | | | | | | | | | | | | | | | | | | | | |
| QA | | 1/22/07 | | X | | | X | | 2 | X | X | | | | | | | | | | | | |
| MW-1 | | | 0945 | X | | | X | | 11 | X | X | | | | | | | | | X | X | X | |
| MW-3 | | | 0725 | X | | | X | | 11 | X | X | | | | | | | | | X | X | X | |
| MW-4 | | | 0830 | X | | | X | | 11 | X | X | | | | | | | | | X | 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

Data Package (circle if required) **EDF/EDD**

Type I - Full Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) Other: _____

| | | | | | |
|-------------------------------------|-----------------|--------------|--|-------------------|--------------|
| Relinquished by | Date 1/22/07 | Time 1200 | Received by | Date 27 FEB 07 | Time 1225 |
| Relinquished by | Date | Time | Received by | Date | Time |
| Relinquished by Commercial Carrier: | | | Received by | Date | Time |
| UPS _____ FedEx _____ 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: March 17, 2017

Project: 90517

Submittal Date: 02/28/2017
Group Number: 1770638
PO Number: 0015235605
Release Number: CMACLEOD

State of Sample Origin: CA

Client Sample Description

QA-T-170227 NA Water
MW-1-W-170227 Grab Groundwater
MW-3-W-170227 Grab Groundwater
MW-4-W-170227 Grab Groundwater

Lancaster Labs

(LL) #

8857300
8857301
8857302
8857303

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

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

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-170227 NA Water
Facility# 90517 Job# 17156420 GRD
3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857300
LL Group # 1770638
Account # 10906

Project Name: 90517

Collected: 02/27/2017

Chevron

Submitted: 02/28/2017 09:45

6001 Bollinger Canyon Rd L4310

Reported: 03/17/2017 10:25

San Ramon CA 94583

PAOQA

| 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 | Z170611AA | 03/02/2017 20:05 | Hu Yang | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | Z170611AA | 03/02/2017 20:05 | Hu Yang | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 17065B20A | 03/06/2017 13:26 | Brett W Kenyon | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 17065B20A | 03/06/2017 13:26 | Brett W Kenyon | 1 |

Sample Description: MW-1-W-170227 Grab Groundwater
 Facility# 90517 Job# 17156420 GRD
 3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857301
 LL Group # 1770638
 Account # 10906

Project Name: 90517

Collected: 02/27/2017 09:45 by ML

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/28/2017 09:45

Reported: 03/17/2017 10:25

PAO01

| 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 | Naphthalene | 91-20-3 | N.D. | 1 | 1 |
| 10945 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10945 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| GC Volatiles | | SW-846 8015B | ug/l | ug/l | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |
| GC Petroleum Hydrocarbons | | SW-846 8015B modified | ug/l | ug/l | |
| 02500 | Total TPH | n.a. | 600 | 39 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 600 | 39 | 1 |
| TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. | | | | | |
| GC Petroleum Hydrocarbons w/Si | | SW-846 8015B | ug/l | ug/l | |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | n.a. | N.D. | 50 | 1 |
| The reverse surrogate, capric acid, is present at <1%. | | | | | |
| Metals | | SW-846 6010B | ug/l | ug/l | |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.49 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 1.8 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 6.2 | 1 |
| 07061 | Nickel | 7440-02-0 | N.D. | 2.8 | 1 |
| 07072 | Zinc | 7440-66-6 | N.D. | 5.4 | 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/Naphthalene - Water | SW-846 8260B | 1 | Z170604AA | 03/01/2017 23:25 | Hu Yang | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | Z170604AA | 03/01/2017 23:25 | Hu Yang | 1 |

Sample Description: MW-1-W-170227 Grab Groundwater
Facility# 90517 Job# 17156420 GRD
3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857301
LL Group # 1770638
Account # 10906

Project Name: 90517

Collected: 02/27/2017 09:45 by ML

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 02/28/2017 09:45

Reported: 03/17/2017 10:25

PAO01

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|------------------------------|-----------------------|--------|--------------|------------------------|---------------------|-----------------|
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 17065B20A | 03/06/2017 17:59 | Brett W Kenyon | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 17065B20A | 03/06/2017 17:59 | Brett W Kenyon | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 170630015A | 03/07/2017 15:00 | Timothy M Emrick | 1 |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | SW-846 8015B | 1 | 170630014A | 03/10/2017 01:16 | Amy Lehr | 1 |
| 11180 | Low Vol Ext(W) w/SG | SW-846 3510C | 1 | 170630014A | 03/06/2017 09:00 | Bradley W VanLeuven | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 170630015A | 03/06/2017 09:00 | Bradley W VanLeuven | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:22 | Cindy M Gehman | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:22 | Cindy M Gehman | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:22 | Cindy M Gehman | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:22 | Cindy M Gehman | 1 |
| 07072 | Zinc | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:22 | Cindy M Gehman | 1 |
| 01848 | ICP-WW, 3005A (tot rec) - U3 | SW-846 3005A | 1 | 170601848003 | 03/02/2017 05:41 | James L Mertz | 1 |

Sample Description: MW-3-W-170227 Grab Groundwater
 Facility# 90517 Job# 17156420 GRD
 3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857302
 LL Group # 1770638
 Account # 10906

Project Name: 90517

Collected: 02/27/2017 07:25 by ML

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/28/2017 09:45

Reported: 03/17/2017 10:25

PAO03

| 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 | Naphthalene | 91-20-3 | N.D. | 1 | 1 |
| 10945 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10945 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| GC Volatiles | | SW-846 8015B | ug/l | ug/l | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |
| GC Petroleum Hydrocarbons | | SW-846 8015B modified | ug/l | ug/l | |
| 02500 | Total TPH | n.a. | N.D. | 40 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | N.D. | 40 | 1 |
| TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. | | | | | |
| GC Petroleum Hydrocarbons w/Si | | SW-846 8015B | ug/l | ug/l | |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | n.a. | N.D. | 50 | 1 |
| The reverse surrogate, capric acid, is present at <1%. | | | | | |
| Metals | | SW-846 6010B | ug/l | ug/l | |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.49 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 1.8 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 6.2 | 1 |
| 07061 | Nickel | 7440-02-0 | 3.6 | 2.8 | 1 |
| 07072 | Zinc | 7440-66-6 | 7.3 | 5.4 | 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/Naphthalene - Water | SW-846 8260B | 1 | Z170604AA | 03/01/2017 23:49 | Hu Yang | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | Z170604AA | 03/01/2017 23:49 | Hu Yang | 1 |

Sample Description: MW-3-W-170227 Grab Groundwater
 Facility# 90517 Job# 17156420 GRD
 3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857302
 LL Group # 1770638
 Account # 10906

Project Name: 90517

Collected: 02/27/2017 07:25 by ML

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/28/2017 09:45

Reported: 03/17/2017 10:25

PAO03

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|------------------------------|-----------------------|--------|--------------|------------------------|---------------------|-----------------|
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 17065B20A | 03/06/2017 18:26 | Brett W Kenyon | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 17065B20A | 03/06/2017 18:26 | Brett W Kenyon | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 170630015A | 03/07/2017 13:35 | Timothy M Emrick | 1 |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | SW-846 8015B | 1 | 170630014A | 03/10/2017 01:38 | Amy Lehr | 1 |
| 11180 | Low Vol Ext (W) w/SG | SW-846 3510C | 1 | 170630014A | 03/06/2017 09:00 | Bradley W VanLeuven | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 170630015A | 03/06/2017 09:00 | Bradley W VanLeuven | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:25 | Cindy M Gehman | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:25 | Cindy M Gehman | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:25 | Cindy M Gehman | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:25 | Cindy M Gehman | 1 |
| 07072 | Zinc | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:25 | Cindy M Gehman | 1 |
| 01848 | ICP-WW, 3005A (tot rec) - U3 | SW-846 3005A | 1 | 170601848003 | 03/02/2017 05:41 | James L Mertz | 1 |

Sample Description: **MW-4-W-170227 Grab Groundwater**
 Facility# 90517 Job# 17156420 GRD
 3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857303
 LL Group # 1770638
 Account # 10906

Project Name: 90517

Collected: 02/27/2017 08:30 by ML

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 02/28/2017 09:45

Reported: 03/17/2017 10:25

PAO04

| 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 | 33 | 0.5 | 1 |
| 10945 | Ethylbenzene | 100-41-4 | 4 | 0.5 | 1 |
| 10945 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | 1 |
| 10945 | Naphthalene | 91-20-3 | 1 | 1 | 1 |
| 10945 | Toluene | 108-88-3 | 14 | 0.5 | 1 |
| 10945 | Xylene (Total) | 1330-20-7 | 11 | 0.5 | 1 |
| GC Volatiles | | SW-846 8015B | ug/l | ug/l | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | 2,400 | 50 | 1 |
| GC Petroleum Hydrocarbons | | SW-846 8015B modified | ug/l | ug/l | |
| 02500 | Total TPH | n.a. | 66 | 40 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 66 | 40 | 1 |
| TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. | | | | | |
| GC Petroleum Hydrocarbons w/Si | | SW-846 8015B | ug/l | ug/l | |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | n.a. | 190 | 50 | 1 |
| The reverse surrogate, capric acid, is present at <1%. | | | | | |
| Metals | | SW-846 6010B | ug/l | ug/l | |
| 07049 | Cadmium | 7440-43-9 | N.D. | 0.49 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 1.8 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 6.2 | 1 |
| 07061 | Nickel | 7440-02-0 | N.D. | 2.8 | 1 |
| 07072 | Zinc | 7440-66-6 | N.D. | 5.4 | 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/Naphthalene - Water | SW-846 8260B | 1 | Z170604AA | 03/02/2017 00:13 | Hu Yang | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | Z170604AA | 03/02/2017 00:13 | Hu Yang | 1 |

Sample Description: MW-4-W-170227 Grab Groundwater
Facility# 90517 Job# 17156420 GRD
3900 Piedmont-Oakland T0600102248

LL Sample # WW 8857303
LL Group # 1770638
Account # 10906

Project Name: 90517

Collected: 02/27/2017 08:30 by ML

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 02/28/2017 09:45

Reported: 03/17/2017 10:25

PAO04

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|------------------------------|-----------------------|--------|--------------|------------------------|---------------------|-----------------|
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 17065B20A | 03/06/2017 18:54 | Brett W Kenyon | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 17065B20A | 03/06/2017 18:54 | Brett W Kenyon | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 170630015A | 03/07/2017 13:56 | Timothy M Emrick | 1 |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | SW-846 8015B | 1 | 170630014A | 03/10/2017 01:59 | Amy Lehr | 1 |
| 11180 | Low Vol Ext (W) w/SG | SW-846 3510C | 1 | 170630014A | 03/06/2017 09:00 | Bradley W VanLeuven | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 170630015A | 03/06/2017 09:00 | Bradley W VanLeuven | 1 |
| 07049 | Cadmium | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:28 | Cindy M Gehman | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:28 | Cindy M Gehman | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:28 | Cindy M Gehman | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:28 | Cindy M Gehman | 1 |
| 07072 | Zinc | SW-846 6010B | 1 | 170601848003 | 03/02/2017 22:28 | Cindy M Gehman | 1 |
| 01848 | ICP-WW, 3005A (tot rec) - U3 | SW-846 3005A | 1 | 170601848003 | 03/02/2017 05:41 | James L Mertz | 1 |

Quality Control Summary

Client Name: Chevron
Reported: 03/17/2017 10:25

Group Number: 1770638

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: Z170604AA | Sample number(s): 8857301-8857303 | |
| Benzene | N.D. | 0.5 |
| Ethylbenzene | N.D. | 0.5 |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 |
| Naphthalene | N.D. | 1 |
| Toluene | N.D. | 0.5 |
| Xylene (Total) | N.D. | 0.5 |
| Batch number: Z170611AA | Sample number(s): 8857300 | |
| 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: 17065B20A | Sample number(s): 8857300-8857303 | |
| TPH-GRO N. CA water C6-C12 | N.D. | 50 |
| Batch number: 170630015A | Sample number(s): 8857301-8857303 | |
| Total TPH | N.D. | 40 |
| TPH Motor Oil C16-C36 | N.D. | 40 |
| Batch number: 170630014A | Sample number(s): 8857301-8857303 | |
| TPH-DRO CA C10-C28 w/ Si Gel | N.D. | 32 |
| Batch number: 170601848003 | Sample number(s): 8857301-8857303 | |
| Cadmium | N.D. | 0.49 |
| Chromium | N.D. | 1.8 |
| Lead | N.D. | 6.2 |
| Nickel | N.D. | 2.8 |
| Zinc | N.D. | 5.4 |

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: Z170604AA | Sample number(s): 8857301-8857303 | | | | | | | | |
| Benzene | 20 | 21.19 | | | 106 | | 78-120 | | |
| Ethylbenzene | 20 | 19.62 | | | 98 | | 78-120 | | |

*- 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: 03/17/2017 10:25

Group Number: 1770638

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added ug/l | LCS Conc ug/l | LCSD Spike Added ug/l | LCSD Conc ug/l | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|------------------------------|-----------------------------------|---------------|-----------------------|----------------|----------|-----------|-----------------|-----|---------|
| Methyl Tertiary Butyl Ether | 20 | 21.77 | | | 109 | | 75-120 | | |
| Naphthalene | 20 | 14.82 | | | 74 | | 59-120 | | |
| Toluene | 20 | 20.87 | | | 104 | | 80-120 | | |
| Xylene (Total) | 60 | 60.73 | | | 101 | | 80-120 | | |
| Batch number: Z170611AA | Sample number(s): 8857300 | | | | | | | | |
| Benzene | 20 | 21.34 | | | 107 | | 78-120 | | |
| Ethylbenzene | 20 | 19.96 | | | 100 | | 78-120 | | |
| Methyl Tertiary Butyl Ether | 20 | 21.1 | | | 105 | | 75-120 | | |
| Toluene | 20 | 21.03 | | | 105 | | 80-120 | | |
| Xylene (Total) | 60 | 62.99 | | | 105 | | 80-120 | | |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 17065B20A | Sample number(s): 8857300-8857303 | | | | | | | | |
| TPH-GRO N. CA water C6-C12 | 1100 | 1022.92 | 1100 | 1041.46 | 93 | 95 | 80-120 | 2 | 30 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 170630015A | Sample number(s): 8857301-8857303 | | | | | | | | |
| Total TPH | 802 | 599.48 | 802 | 600.46 | 75 | 75 | 44-115 | 0 | 20 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 170630014A | Sample number(s): 8857301-8857303 | | | | | | | | |
| TPH-DRO CA C10-C28 w/ Si Gel | 1600 | 1065.22 | 1600 | 892.23 | 67 | 56 | 40-105 | 18 | 20 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 170601848003 | Sample number(s): 8857301-8857303 | | | | | | | | |
| Cadmium | 50 | 53.41 | | | 107 | | 80-120 | | |
| Chromium | 200 | 208.21 | | | 104 | | 80-120 | | |
| Lead | 150 | 157.34 | | | 105 | | 80-120 | | |
| Nickel | 500 | 540.7 | | | 108 | | 80-120 | | |
| Zinc | 500 | 521.98 | | | 104 | | 80-120 | | |

MS/MSD

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

| Analysis Name | Unspiked Conc ug/l | MS Spike Added ug/l | MS Conc ug/l | MSD Spike Added ug/l | MSD Conc ug/l | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|-----------------------------|--|---------------------|--------------|----------------------|---------------|---------|----------|---------------|-----|---------|
| Batch number: Z170604AA | Sample number(s): 8857301-8857303 UNSPK: P857442 | | | | | | | | | |
| Benzene | 0.877 | 20 | 22.92 | 20 | 23.43 | 110 | 113 | 78-120 | 2 | 30 |
| Ethylbenzene | N.D. | 20 | 21.29 | 20 | 21.86 | 106 | 109 | 78-120 | 3 | 30 |
| Methyl Tertiary Butyl Ether | 375.29 | 20 | 569.11 | 20 | 538.98 | 969 (2) | 818 (2) | 75-120 | 5 | 30 |
| Naphthalene | N.D. | 20 | 14.81 | 20 | 15.31 | 74 | 77 | 59-120 | 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.

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: 03/17/2017 10:25

Group Number: 1770638

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 |
|---|--------------------|---------------------|--------------|----------------------|---------------|---------|----------|---------------|-----|---------|
| Toluene | 1.88 | 20 | 22.59 | 20 | 23.92 | 104 | 110 | 80-120 | 6 | 30 |
| Xylene (Total) | N.D. | 60 | 65.35 | 60 | 66.81 | 109 | 111 | 80-120 | 2 | 30 |
| Batch number: Z170611AA Sample number(s): 8857300 UNSPK: P857459 | | | | | | | | | | |
| Benzene | 15.94 | 20 | 37.91 | 20 | 38.58 | 110 | 113 | 78-120 | 2 | 30 |
| Ethylbenzene | N.D. | 20 | 20.84 | 20 | 21.55 | 104 | 108 | 78-120 | 3 | 30 |
| Methyl Tertiary Butyl Ether | 3.63 | 20 | 24.16 | 20 | 24.34 | 103 | 104 | 75-120 | 1 | 30 |
| Toluene | 0.600 | 20 | 21.84 | 20 | 22.37 | 106 | 109 | 80-120 | 2 | 30 |
| Xylene (Total) | N.D. | 60 | 64.62 | 60 | 66.16 | 108 | 110 | 80-120 | 2 | 30 |
| | ug/l | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 170601848003 Sample number(s): 8857301-8857303 UNSPK: P851853 | | | | | | | | | | |
| Cadmium | N.D. | 50 | 49.58 | 50 | 50.03 | 99 | 100 | 75-125 | 1 | 20 |
| Chromium | N.D. | 200 | 190.58 | 200 | 194.69 | 95 | 97 | 75-125 | 2 | 20 |
| Lead | N.D. | 150 | 147.5 | 150 | 149.74 | 98 | 100 | 75-125 | 2 | 20 |
| Nickel | N.D. | 500 | 498.25 | 500 | 505.6 | 100 | 101 | 75-125 | 1 | 20 |
| Zinc | N.D. | 500 | 485.64 | 500 | 492.19 | 97 | 98 | 75-125 | 1 | 20 |

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | BKG Conc ug/l | DUP Conc ug/l | DUP RPD | DUP RPD Max |
|---|---------------|---------------|---------|-------------|
| Batch number: 170601848003 Sample number(s): 8857301-8857303 BKG: P851853 | | | | |
| Cadmium | N.D. | N.D. | 0 (1) | 20 |
| Chromium | N.D. | N.D. | 0 (1) | 20 |
| Lead | N.D. | N.D. | 0 (1) | 20 |
| Nickel | N.D. | N.D. | 0 (1) | 20 |
| Zinc | N.D. | N.D. | 0 (1) | 20 |

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/Naphthalene - Water
Batch number: Z170604AA

*- 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: 03/17/2017 10:25

Group Number: 1770638

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/Naphthalene - Water
Batch number: Z170604AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 8857301 | 105 | 102 | 100 | 95 |
| 8857302 | 105 | 100 | 100 | 98 |
| 8857303 | 101 | 96 | 100 | 104 |
| Blank | 102 | 101 | 100 | 95 |
| LCS | 101 | 100 | 100 | 101 |
| MS | 100 | 102 | 100 | 101 |
| MSD | 99 | 100 | 100 | 101 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: BTEX/MTBE
Batch number: Z170611AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 8857300 | 104 | 99 | 99 | 94 |
| Blank | 102 | 102 | 99 | 95 |
| LCS | 101 | 104 | 99 | 101 |
| MS | 101 | 99 | 100 | 102 |
| MSD | 100 | 99 | 100 | 102 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17065B20A

| | Trifluorotoluene-F |
|---------|--------------------|
| 8857300 | 90 |
| 8857301 | 82 |
| 8857302 | 90 |
| 8857303 | 115 |
| Blank | 88 |
| LCS | 96 |
| LCSD | 96 |
| Limits: | 63-135 |

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 170630014A

| | Orthoterphenyl |
|---------|----------------|
| 8857301 | 67 |
| 8857302 | 56 |
| 8857303 | 71 |
| Blank | 60 |
| LCS | 79 |
| LCSD | 66 |

*- 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: 03/17/2017 10:25

Group Number: 1770638

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 170630014A

Limits: 42-126

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 170630015A

| | Chlorobenzene | Orthoterphenyl |
|---------|---------------|----------------|
| 8857301 | 100 | 88 |
| 8857302 | 96 | 83 |
| 8857303 | 100 | 100 |
| Blank | 88 | 87 |
| LCS | 124 | 90 |
| LCSD | 118 | 88 |
| Limits: | 35-135 | 48-122 |

*- 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



1L 7540
Lancaster Laboratories
Environmental

Acct. # 10906

For Eurofins Lancaster Laboratories Environmental use only
Group # 1710638 Sample # 5857300-03
Instructions on reverse side correspond with circled numbers.

022717-03

| Client Information | | | | Matrix | | | Analyses Requested | | | | | | | | | | Remarks | |
|--|--|---------------------------------|---------------|---|-------------------------------------|-----------|---|-------------|-------------|-------------|--|------------------|----------------|------------|--|--|---|--|
| Facility # SS#9-0517-OML G-R#17156420 Global ID#T0600102248 | | | | WBS | | | | | | | | | | | | | SCR #: _____ | |
| Site Address 3900 PIEDMONT AVENUE, OAKLAND, CA | | | | Sediment <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> | | | | | | | | | | | | | <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 | |
| Chevron PM CM STANTECTF | | Lead Consultant Flora | | Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> | | | | | | | | | | | | | | |
| Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568 | | | | Oil <input type="checkbox"/> | | | | | | | | | | | | | | |
| Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com | | | | Total Number of Containers | | | | | | | | | | | | | | |
| Consultant Phone # (925) 551-7444 x180 | | | | BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| Sampler Mike L. | | | | TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> | | | | | | | | | | | | | | |
| Sample Identification | | Soil Depth | Collected | | Grab | Composite | | | | | | | | | | | | |
| | | | Date | Time | | | | | | | | | | | | | | |
| QA | | | 170227 | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| MW-1 | | | | 0945 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| MW-3 | | | | 0725 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| MW-4 | | | | 0830 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by | | | Date | Time | Received by | | | Date | Time | | | | | |
| <input checked="" type="radio"/> Standard 5 day 4 day <input type="radio"/> 72 hour 48 hour 24 hour | | | | | | | 170227 | 1200 | | | | 27 FEB 17 | 1225 | | | | | |
| Data Package (circle if required) | | | | Relinquished by | | | Date | Time | Received by | | | Date | Time | | | | | |
| <input type="radio"/> Type I - Full <input checked="" type="radio"/> Type VI (Raw Data) EDF/EDD | | | | | | | 27 FEB 17 | 1630 | | | | | | | | | | |
| EDD (circle if required) | | | | Relinquished by Commercial Carrier: | | | | | | Received by | | | Date | Time | | | | |
| <input checked="" type="radio"/> EDFFLAT (default) Other: _____ | | | | UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ | | | | | | | | | 2-28-17 | 945 | | | | |
| Temperature Upon Receipt 17.70 °C | | | | | | | Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No | | | | | | | | | | | |

Client: CA Office

Delivery and Receipt Information

| | | | |
|---------------------------|-------------|---------------------|------------------------|
| Delivery Method: | <u>BASC</u> | Arrival Timestamp: | <u>02/28/2017 9:45</u> |
| Number of Packages: | <u>4</u> | Number of Projects: | <u>4</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 Timothy Cubberley (6520) at 12:26 on 02/28/2017

Samples Chilled Details

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

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|----------|----------------|----------------|-------------|----------|--------------|---------------|----------------|
| 1 | DT121 | 2.2 | DT | Wet | Y | Bagged | N |
| 2 | DT121 | 3.0 | DT | Wet | Y | Bagged | N |
| 3 | DT121 | 1.7 | DT | Wet | Y | Bagged | N |
| 4 | DT121 | 2.6 | 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.

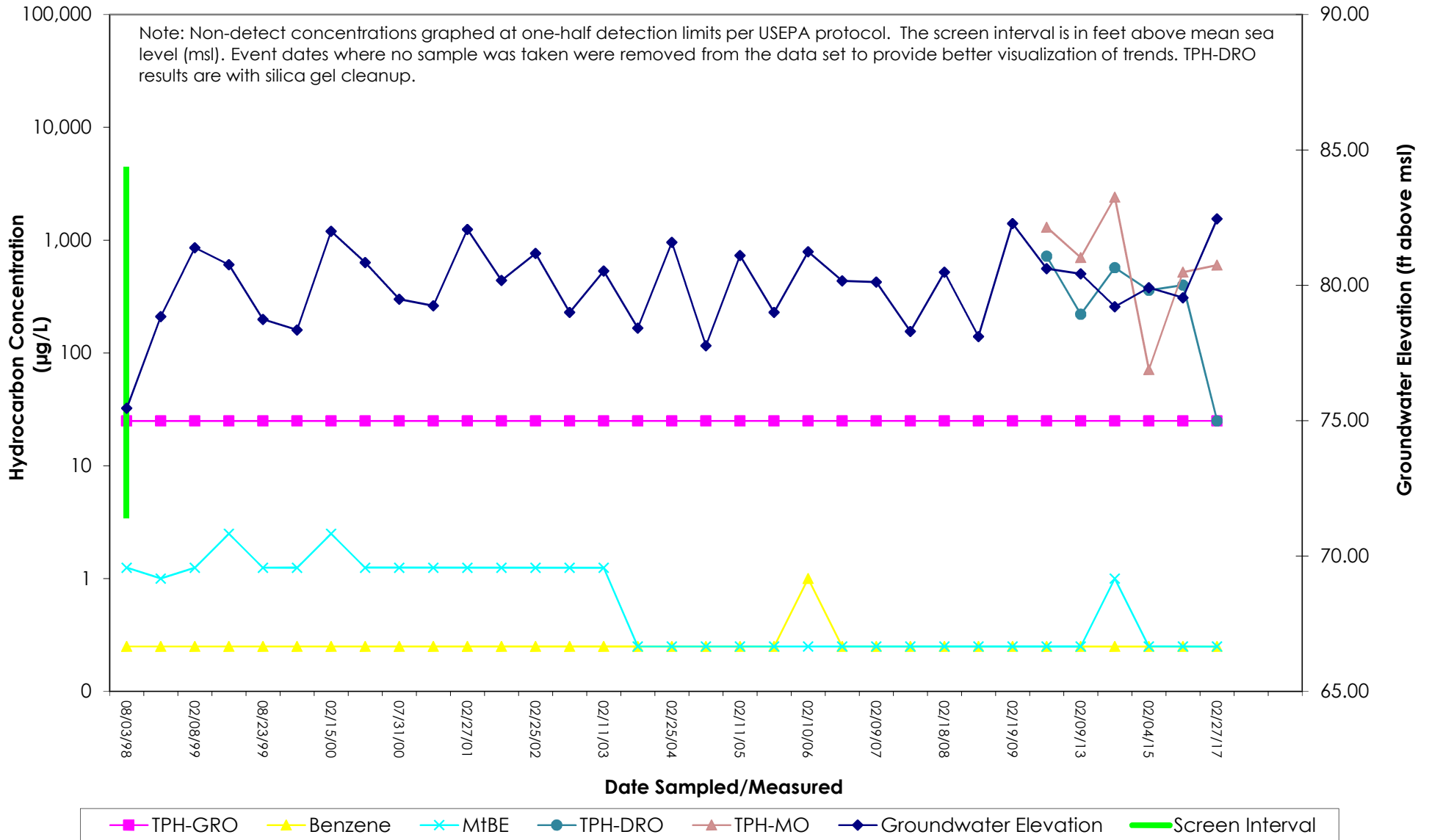
Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ATTACHMENT C
Hydrographs

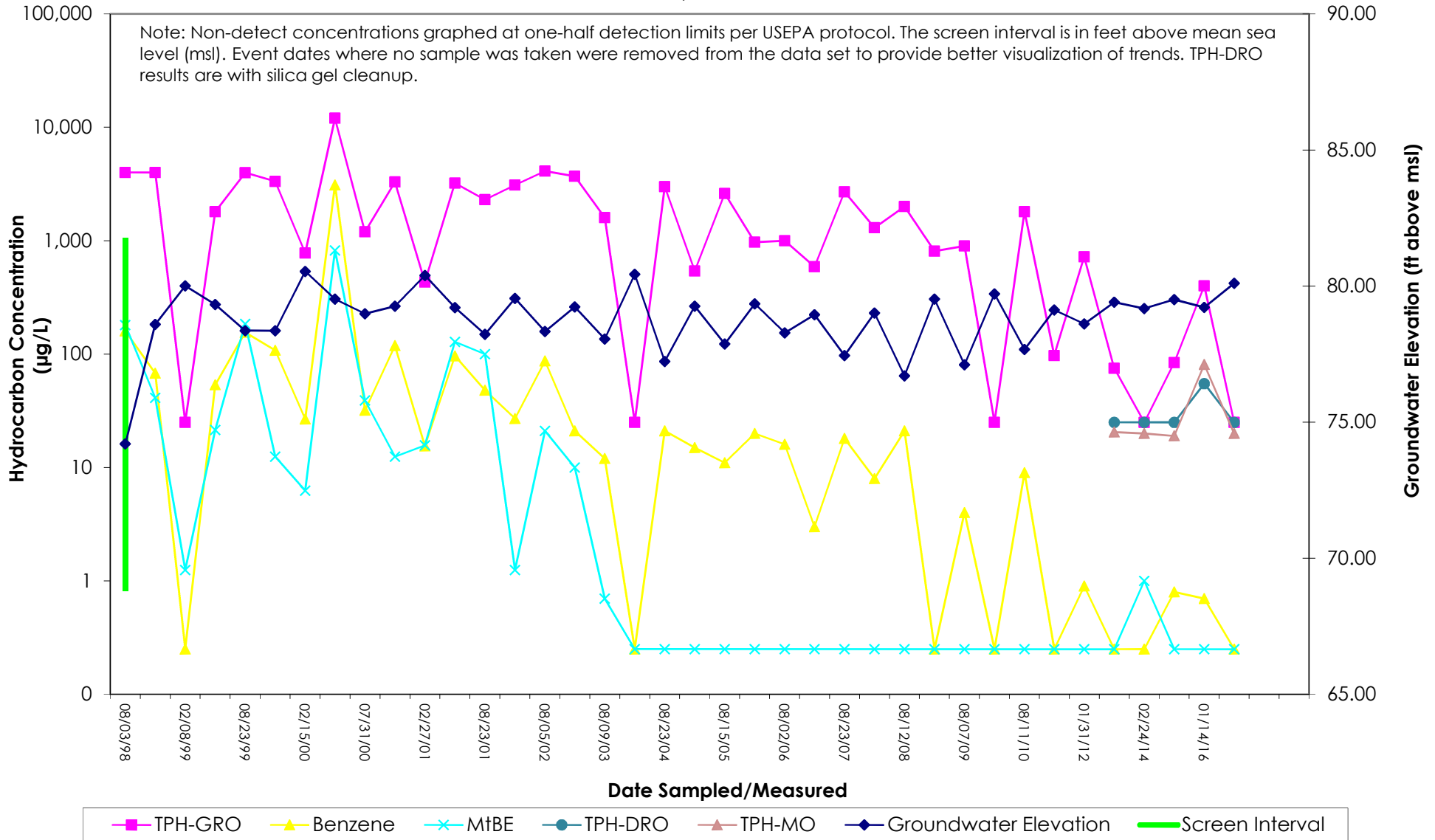
MW-1 TPH-GRO, TPH-DRO, TPH-MO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California



MW-3 TPH-GRO, TPH-DRO, TPH-MO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California



MW-4 TPH-GRO, TPH-DRO, TPH-MO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time

Former Chevron-branded Service Station 90517
3900 Piedmont Avenue
Oakland, California

