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**First Quarter 2012 Quarterly
Groundwater Monitoring Report**

**Former Chevron-branded Service
Station 91723
9757 San Leandro Street
Oakland, California**

RECEIVED

1:18 pm, Jun 19, 2012

Alameda County
Environmental Health

Submitted to:

Mr. Mark Detterman
Alameda County Health Care
Services Agency
Department of Environmental Health
Services, Environmental Protection
Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Prepared for:

Chevron Environmental Management
Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

Submitted by:

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

May 29, 2012



Mark Horne
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-3964
MarkHorne@chevron.com

May 29, 2012

Mr. Mark Detterman
Alameda County Health Care Services Agency
Department of Environmental Health Services,
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *First Quarter 2012 Quarterly Groundwater Monitoring Report* for former Chevron-branded service station 91723, located at 9757 San Leandro Street in Oakland, California. This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

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

Sincerely,

A handwritten signature in blue ink that reads "Mark E. Horne".

Mark Horne
Project Manager



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Los Gatos, CA 95032
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May 29, 2012

Mr. Mark Detterman
Alameda County Health Care Services Agency
Department of Environmental Health Services, Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

RE: **First Quarter 2012 Quarterly Groundwater Monitoring Report**
Former Chevron-branded Service Station 91723
9757 San Leandro Street
Oakland, California

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *First Quarter 2012 Quarterly Groundwater Monitoring Report* for former Chevron-branded service station 91723, which was located at 9757 San Leandro Street, Oakland, California (the Site - shown on **Figure 1**). This report is presented in three sections: Site Background, First Quarter 2012 Groundwater Monitoring and Sampling Program, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is a former Chevron-branded service station located on the western corner at the intersection of San Leandro Street and 98th Avenue in Oakland, Alameda County, California. The Site is currently a large parking area staging semi-trucks for a distribution company. A former Chevron-branded service station operated at the Site from approximately 1946 to 1978. Prior to 1966, three fuel underground storage tanks (USTs) and one fuel dispenser island (first generation) located in the eastern portion of the Site were removed. Second-generation fuel structures (installed between 1966 and 1968) included three fuel USTs located in the north central portion of the Site, one waste oil UST located in the western portion of the Site, and five fuel dispenser islands (four located in the central portion of the Site and one located in the southern portion of the Site). In 1978, the service station was closed and the second-generation fuel structures were removed from the Site. Land use near the Site consists primarily of commercial and industrial properties. The Site is bounded on the northwest and southwest by a former food processing plant, on the northeast by San Leandro Street, and on the southeast by 98th Avenue. A Thrifty-branded service station was formerly located southeast of the Site at 9801 San Leandro Street (Case No.: RO0000894) and was granted closure on April 2, 1997.

FIRST QUARTER 2012 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Blaine Tech Services, Inc. (Blaine Tech) performed the First Quarter 2012 groundwater monitoring and sampling event on March 30, 2012. Blaine Tech's standard operating

procedures (SOPs) and field data sheets are included in **Attachment A**. Blaine Tech gauged depth-to-groundwater in five Site wells (MW-2, MW-5, MW-6, MW-8, and MW-9) prior to collecting groundwater samples for laboratory analysis. All five Site wells were sampled this quarter.

Investigation-derived waste (IDW) generated during the First Quarter 2012 groundwater monitoring and sampling event was collected by Blaine Tech and transported under bill-of-lading to Integrated Wastestream Management, Inc. (IWM) facilities in San Jose, California.

Groundwater Elevation and Gradient

Well construction details and an assessment of whether groundwater samples were collected when groundwater elevations were measured across the well screen intervals are presented in **Table 1**. All wells are currently screened across the prevailing water table, with the exception of well MW-2, where the screen interval is submerged. Groundwater elevation data from Third Quarter 2011 to the present are included in **Table 2**. A groundwater elevation contour map (based on First Quarter 2012 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the west-southwest at an approximate hydraulic gradient ranging from 0.002 to 0.004 feet per foot (ft/ft). This is generally consistent with the historical direction of groundwater flow from Third Quarter 2011 to the present, as shown by the Rose Diagram on **Figure 3**.

Schedule of Laboratory Analysis

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

In addition, groundwater samples were analyzed for sulfate (SO_4^{2-}) and nitrate (NO_3^-) by US EPA Method 300.0, alkalinity (to pH 4.5 and 8.3) by SM20 2320-B, methane (CH_4) by US EPA Method 8015B modified (SW-846), ferrous iron (Fe^{2+}) by SM20 3500-Fe B modified, and sulfide by SM20 4500-S2 D to further evaluate if Site conditions are suitable for monitored natural attenuation (MNA). Field measurements of dissolved oxygen (DO) and oxidation-reduction potential (ORP) were collected using an in-line flow-through cell.

Groundwater Analytical Results

During the First Quarter 2012 groundwater monitoring and sampling event, groundwater samples were collected from five Site wells (MW-2, MW-5, MW-6, MW-8, and MW-9). Groundwater analytical results from Third Quarter 2011 to the present are included in **Table 2**. Current parameters used to evaluate MNA are presented in **Table 3**. A figure showing the latest groundwater analytical data plotted on a Site map is included as **Figure 4**. A TPH-GRO isoconcentration map is shown on **Figure 5**. A benzene isoconcentration map is shown on **Figure 6**. An isoconcentration map was not developed for MtBE as concentrations in all Site wells were below the laboratory reporting limit (LRL) of 0.5 micrograms per liter ($\mu\text{g/L}$).

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First Quarter 2012 Quarterly Groundwater Monitoring Report
Former Chevron-branded Service Station 91723
May 29, 2012
Page 3 of 7

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. Historical groundwater analytical results from 1987 through 1998 are included in **Attachment C**. Hydrographs based on groundwater elevations and analytical results from Third Quarter 2011 to the present are included in **Attachment D**. A summary of First Quarter 2012 groundwater analytical results follows. Historical trends were not analyzed as wells have only been sampled recently during three events.

- **TPH-GRO** was detected in three Site wells this quarter, at concentrations of 180 µg/L (well MW-2), 190 µg/L (well MW-5), and 2,200 µg/L (well MW-8).
- **Benzene** was detected in one Site well this quarter, at a concentration of 65 µg/L (well MW-8).
- **Toluene** was detected in one Site well this quarter, at a concentration of 3 µg/L (well MW-8).
- **Ethylbenzene** was detected in two Site wells this quarter, at concentrations of 2 µg/L (well MW-2) and 20 µg/L (well MW-8).
- **Total Xylenes** were detected in two Site wells this quarter, at concentrations of 4 µg/L (well MW-2) and 14 µg/L (well MW-8).
- **MtBE** was not detected above the LRL (0.5 µg/L) in any Site well sampled this quarter.

Monitored Natural Attenuation Analytical Results

An evaluation of MNA involves assessing a variety of physical, chemical, and biological processes that, under favorable conditions, may effectively reduce the mass, toxicity, mobility, volume, or concentration of constituents in soil or groundwater. For petroleum hydrocarbons, intrinsic biodegradation is typically the most important natural attenuation mechanism for the reduction of concentrations in groundwater. Intrinsic biodegradation involves the transfer of energy in the form of electrons by microorganisms in the subsurface. Bacteria use petroleum hydrocarbon constituents such as TPH, BTEX compounds, and MtBE as electron donors while DO, NO₃⁻, ferric iron (Fe³⁺), SO₄²⁻, and carbon dioxide (CO₂), in order of preference, act as electron acceptors.

The geochemical parameters measured at the Site include DO; Fe²⁺, a metabolite of Fe³⁺ reduction; NO₃⁻; SO₄²⁻; CH₄, a metabolite of CO₂ reduction; total alkalinity; sulfide, a metabolite of SO₄²⁻ reduction; and ORP. These parameters provide lines of evidence for evaluating MNA and determining the most likely biodegradation mechanisms utilized within the plume (e.g., Fe³⁺ reduction, SO₄²⁻ reduction, etc.). MNA parameters are summarized in **Table 3**. Because only three sampling events have recently been conducted at the Site and only one sampling event has included MNA parameters, evaluation of and conclusions based on the MNA parameters will be limited.

During First Quarter 2012, DO levels (post-purge) in Site wells ranged between 1.08 milligrams per liter (mg/L; well MW-2) and 1.34 mg/L (well MW-9). Based on the DO results, the Site is

becoming oxygen depleted and anaerobic. Consequently, alternative electron acceptors will be used for degradation.

ORP levels (post-purge) ranged between 179 millivolts (mV; well MW-9) and 230 mV (well MW-8). ORP values indicate oxidizing conditions. Values in this range are associated with aerobic respiration, NO_3^- reduction, and moving into the range of Fe^{3+} reduction.

Concentrations of NO_3^- ranged from below the LRL of 250 $\mu\text{g/L}$ (wells MW-6 and MW-9) to 2,300 $\mu\text{g/L}$ (well MW-8). Concentrations of SO_4^{2-} ranged from 5,600 $\mu\text{g/L}$ (well MW-6) to 32,200 $\mu\text{g/L}$ (well MW-8). NO_3^- and SO_4^{2-} concentrations are generally low at this time.

Concentrations of Fe^{2+} ranged from 31 $\mu\text{g/L}$ (well MW-9) to 29,300 $\mu\text{g/L}$ (well MW-8). Higher concentrations of metabolic by-product Fe^{2+} were generally found in wells with higher petroleum hydrocarbon concentrations such as well MW-8 (and vice versa in wells outside the plume such as well MW-9). This indicates that Fe^{3+} reduction may be occurring within the dissolved-phase petroleum hydrocarbon plume.

Concentrations of CH_4 ranged from below the LRL of 5.0 $\mu\text{g/L}$ (well MW-9) to 2,100 $\mu\text{g/L}$ (well MW-8). Concentrations of sulfide were below the LRLs of 54 $\mu\text{g/L}$ and 270 $\mu\text{g/L}$ in all Site wells except well MW-8, where sulfide was detected at a concentration of 780 $\mu\text{g/L}$.

Total alkalinity measurements ranged from 370,000 $\mu\text{g/L}$ as calcium carbonate (CaCO_3 ; well MW-5) to 545,000 $\mu\text{g/L}$ as CaCO_3 (well MW-2). Increased alkalinity can be seen in the areas of petroleum impacts. Well MW-8 and down-gradient well MW-6 have similar alkalinity values. Well MW-2, which is down-gradient of well MW-5, had the highest alkalinity value and may indicate biodegradation is occurring along the TPH-GRO plume.

In general, the subsurface is becoming oxygen depleted. Bioactivity appears to be occurring at well MW-8 and along the TPH-GRO plume between wells MW-5 and MW-2. Site conditions are currently favorable for petroleum hydrocarbon degradation to occur via Fe^{3+} reduction. As Site conditions become more reducing, degradation rates may slow due to the lower levels of electron acceptors identified by groundwater sampling.

CONCLUSIONS AND RECOMMENDATIONS

Concentrations of TPH-GRO and benzene were observed above California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) Environmental Screening Levels (ESLs) for groundwater that is a current or potential source of drinking water as follows:

- TPH-GRO concentrations exceed the ESL of 100 $\mu\text{g/L}$ in wells MW-2, MW-5, and MW-8; and
- The benzene concentration exceeds the ESL of 1 $\mu\text{g/L}$ in well MW-8.

Maximum concentrations of TPH-GRO and BTEX compounds were observed in well MW-8, which is located in the northern portion of the Site near the former second-generation USTs. TPH-GRO was also detected in well MW-5, near the former first-generation dispenser island, and at well MW-2, approximately 200 feet southwest of well MW-5. Due to TPH-GRO and BTEX compounds below LRLs in well MW-6 (down-gradient of well MW-5), and the potential for

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May 29, 2012
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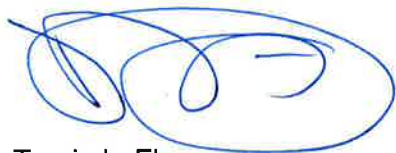
two distinct source areas, TPH-GRO has been represented as two distinct plumes. MtBE was not detected above LRLs in any Site well sampled this quarter.

Based on concentrations of TPH-GRO and benzene exceeding ESLs, and to further evaluate groundwater quality and the prevailing direction of groundwater flow at the Site, Stantec recommends that the groundwater monitoring and sampling program continue. Though the Alameda County Environmental Health (ACEH) correspondence, dated July 24, 2009, recommended semi-annual groundwater monitoring and sampling during First and Third Quarters, Stantec recommends that quarterly groundwater monitoring and sampling be conducted for a period of one year due to the large gap since the last groundwater monitoring and sampling event (Third Quarter 1998) at the Site. Any changes to the groundwater sampling program will be proposed following the Second Quarter 2012 groundwater monitoring and sampling event. In the ACEH correspondence, it was also requested that reports be submitted to ACEH within 60 days following groundwater monitoring and sampling events.

MNA parameters were collected during the First Quarter 2012 groundwater monitoring and sampling event. In general, the subsurface is becoming oxygen depleted. Bioactivity appears to be occurring at select wells. Site conditions are currently favorable for petroleum hydrocarbon degradation to occur via Fe^{3+} reduction. As Site conditions become more reducing, degradation rates may slow due to the lower levels of electron acceptors identified by groundwater sampling. MNA parameters are recommended to be sampled during Second Quarter 2012 to further evaluate biodegradation trends.

If you have any questions regarding the contents of this report, please contact the Stantec project manager, Travis Flora, at (408) 356-6124 or travis.flora@stantec.com.

Sincerely,
Stantec Consulting Services Inc.



Travis L. Flora
Project Manager

Stantec

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Former Chevron-branded Service Station 91723
May 29, 2012
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Attachments:

Table 1 – Well Details / Screen Interval Assessment – First Quarter 2012

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Monitored Natural Attenuation Parameters

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – First Quarter 2012

Figure 3 – Rose Diagram – First Quarter 2012

Figure 4 – Site Plan Showing Groundwater Concentrations – First Quarter 2012

Figure 5 – TPH-GRO Isoconcentration Map – First Quarter 2012

Figure 6 – Benzene Isoconcentration Map – First Quarter 2012

Attachment A – Blaine Tech Services, Inc. Groundwater Monitoring Report – First Quarter 2012

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

Attachment C – Historical Groundwater Analytical Results

Attachment D – Hydrographs

cc:

Mr. Mark Horne, Chevron Environmental Management Company, 6101 Bollinger Canyon Road,
San Ramon, CA 94583 – Electronic Copy

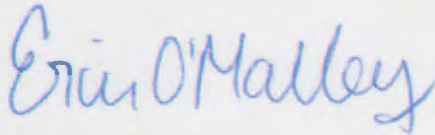
Linda Hothem Trust c/o Mr. Jan Greben, Greben & Associates, 1332 Anacapa Street, Suite
110, Santa Barbara, CA 93101 104 Caledonia Street, Sausalito, CA 94965

J. Jeannero, Gerber Products, 445 State Street, Fremont, MI 49412

LIMITATIONS AND CERTIFICATION

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by:



Erin O'Malley
Engineering Project Specialist

Reviewed by:



Marisa Patterson
Associate Engineer

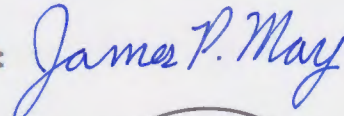
All information, conclusions, and recommendations provided by Stantec in this document regarding the Subject Property have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

Licensed Approver:

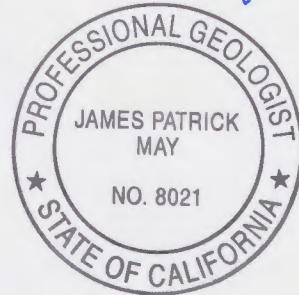
Name: James May, P.G.

Date: 29 MAY 2012

Signature:



Stamp:



Tables

Table 1
Well Details / Screen Interval Assessment
First Quarter 2012
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, 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 bgs)	Current Depth to Groundwater ¹ (feet below TOC)	Screen Interval (feet bgs)	Screen Interval Assessment
MW-2	4/18/1987	Monitoring	2	21.31	22.00	21.62	8.02	12-22	Depth-to-groundwater above screen interval.
MW-5	5/18/1988	Monitoring	2	21.84	20.00	17.64	7.92	7-20	Depth-to-groundwater within screen interval.
MW-6	5/18/1988	Monitoring	2	21.71	20.00	19.62	8.00	7-20	Depth-to-groundwater within screen interval.
MW-8	5/19/1988	Monitoring	2	21.84	20.00	18.27	8.12	7-20	Depth-to-groundwater within screen interval.
MW-9	8/4/1989	Monitoring	4	20.55	20.00	20.07	7.52	5.5-20	Depth-to-groundwater within screen interval.

Notes:
bgs = below ground surface
msl = mean sea level
TOC = top of casing
¹ = As measured prior to groundwater sampling on March 30, 2012.

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

WELL ID/ DATE	TOC (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-2									
09/23/11	21.31	9.78	11.53	180	<0.5	<0.5	0.6	0.6	0.6
12/29/11	21.31	9.73	11.58	100	<0.5	<0.5	0.7	0.9	<0.5
03/30/12	21.31	8.02	13.29	180	<0.5	<0.5	2	4	<0.5
MW-5									
09/23/11	21.84	9.85	11.99	190	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/11	21.84	9.91	11.93	180	<0.5	<0.5	<0.5	<0.5	<0.5
03/30/12	21.84	7.92	13.92	190	<0.5	<0.5	<0.5	<0.5	<0.5
MW-6									
09/23/11	21.71	9.99	11.72	<22	<0.5	<0.5	<0.5	<0.5	0.7
12/29/11	21.71	9.93	11.78	<22	<0.5	<0.5	<0.5	<0.5	0.6
03/30/12	21.71	8.00	13.71	<22	<0.5	<0.5	<0.5	<0.5	<0.5
MW-8									
09/23/11	21.84	10.15	11.69	1,900	55	2	10	8	<0.5
12/29/11	21.84	10.10	11.74	1,300	31	1	5	5	<0.5
03/30/12	21.84	8.12	13.72	2,200	65	3	20	14	<0.5
MW-9									
09/23/11	20.55	9.30	11.25	<22	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/11	20.55	9.51	11.04	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/30/12	20.55	7.52	13.03	<22	<0.5	<0.5	<0.5	<0.5	<0.5
TRIP BLANK									
QA									
09/23/11	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/11	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5
03/30/12	--	--	--	<22	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

EXPLANATIONS:

Current groundwater monitoring data provided by Blaine Tech Services, Inc. Current laboratory analytical results provided by Lancaster Laboratories.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean Sea Level

TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MtBE = Methyl tertiary-butyl ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

Table 3
Monitored Natural Attenuation Parameters
Former Chevron-Branded Service Station 91723
9757 San Leandro Street, Oakland, California

WELL ID/ DATE	METHANE ($\mu\text{g/L}$)	NITRATE ($\mu\text{g/L}$)	SULFATE ($\mu\text{g/L}$)	ALKALINITY TO pH 4.5 ($\mu\text{g/L as CaCO}_3$)	ALKALINITY TO pH 8.3 ($\mu\text{g/L as CaCO}_3$)	FERROUS IRON ($\mu\text{g/L}$)	SULFIDE ($\mu\text{g/L}$)	POST-PURGE DO (mg/L)	POST-PURGE ORP (mV)
MW-2 03/30/12	330	320	10,600	545,000	<460	2,200	<270 ¹	1.08	219
MW-5 03/30/12	110	440	30,200	370,000	<460	300	<270 ¹	1.11	222
MW-6 03/30/12	62	<250	5,600	455,000	<460	210	<54	1.12	223
MW-8 03/30/12	2,100	2,300	32,200	454,000	<460	29,300	780 ¹	1.15	230
MW-9 03/30/12	<5.0	<250	7,400	381,000	<460	31	<54	1.34	179

EXPLANATIONS:

Current groundwater monitoring data provided by Blaine Tech Services, Inc. Current laboratory analytical results provided by Lancaster Laboratories.

($\mu\text{g/L}$) = Micrograms per liter

($\mu\text{g/L as CaCO}_3$) = Micrograms per liter as calcium carbonate

DO = Dissolved Oxygen

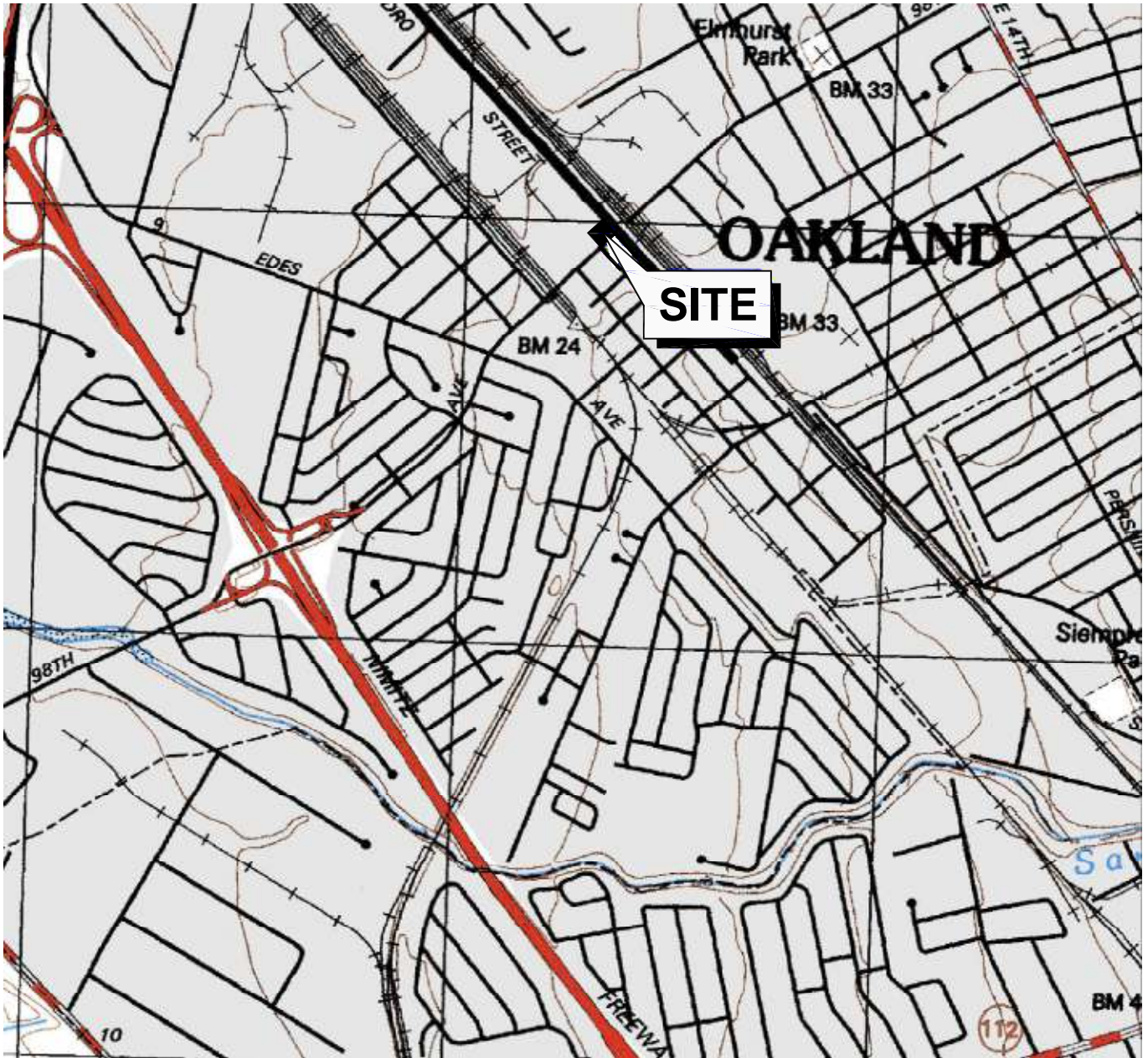
(mg/L) = Milligrams per liter

ORP = Oxidation Reduction Potential

(mV) = Millivolts

¹ Laboratory report indicates reporting limits were raised due to interference from the sample matrix.

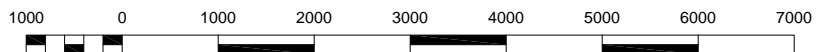
Figures



CALIFORNIA



SCALE IN MILES



SCALE IN FEET

REFERENCE: USGS QUADRANGLE MAP :
SAN LEANDRO, CA 1993



Stantec

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FOR:
FORMER CHEVRON-BRANDED
SERVICE STATION 91723
9757 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE:

1

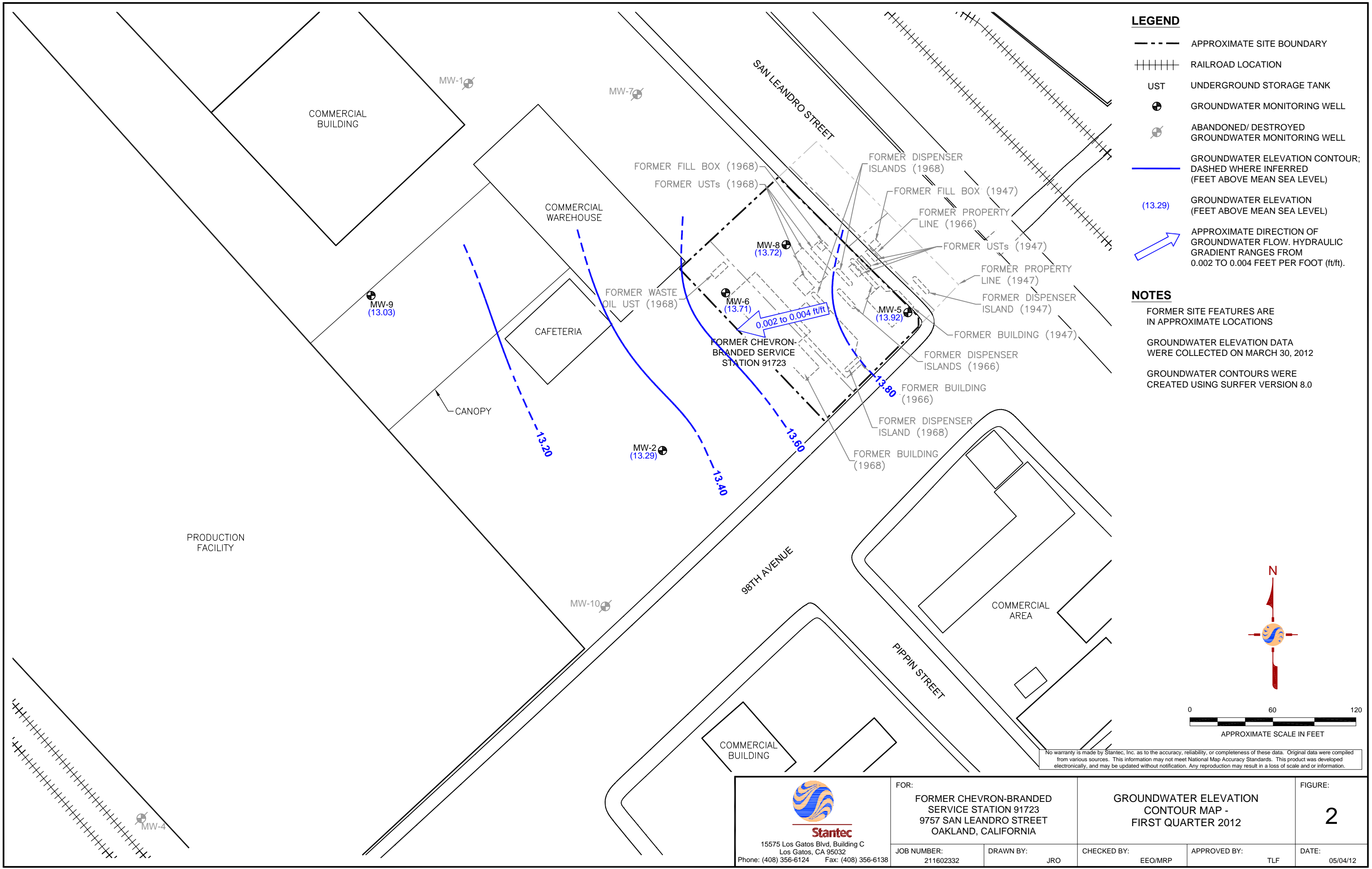
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211602332

DRAWN BY:
JRO

CHECKED BY:
EEO/MRP

APPROVED BY:
TLF

DATE:
05/04/12

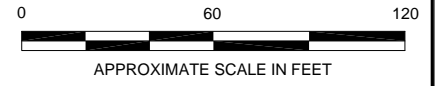
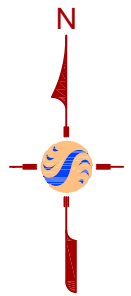


LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD LOCATION
- UST
- GROUNDWATER MONITORING WELL
- ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- (13.29) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW. HYDRAULIC GRADIENT RANGES FROM 0.002 TO 0.004 FEET PER FOOT (ft/ft).

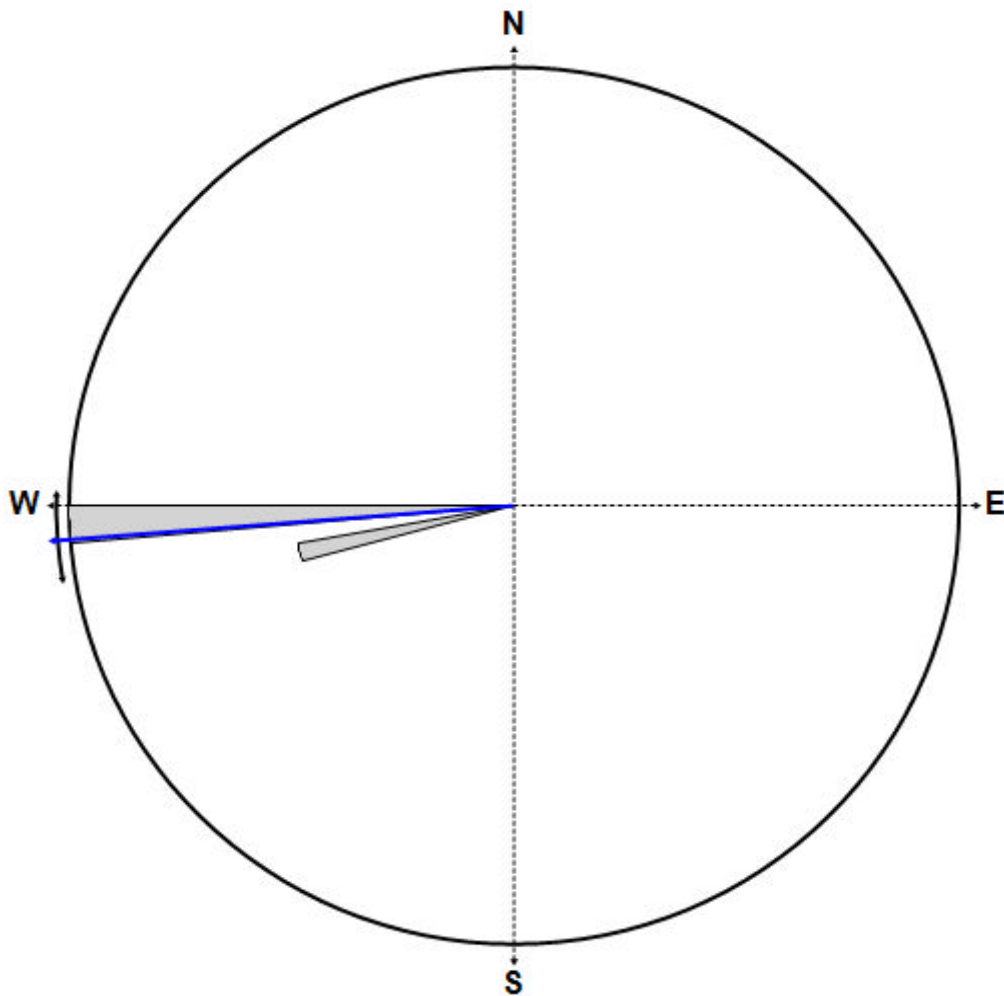
NOTES

- FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS
- GROUNDWATER ELEVATION DATA WERE COLLECTED ON MARCH 30, 2012
- GROUNDWATER CONTOURS WERE CREATED USING SURFER VERSION 8.0



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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 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA</p>		<p>GROUNDWATER ELEVATION CONTOUR MAP - FIRST QUARTER 2012</p>		<p>FIGURE: 2</p>
	<p>JOB NUMBER: 211602332</p>	<p>DRAWN BY: JRO</p>	<p>CHECKED BY: EEO/MRP</p>	<p>APPROVED BY: TLF</p>	<p>DATE: 05/04/12</p>

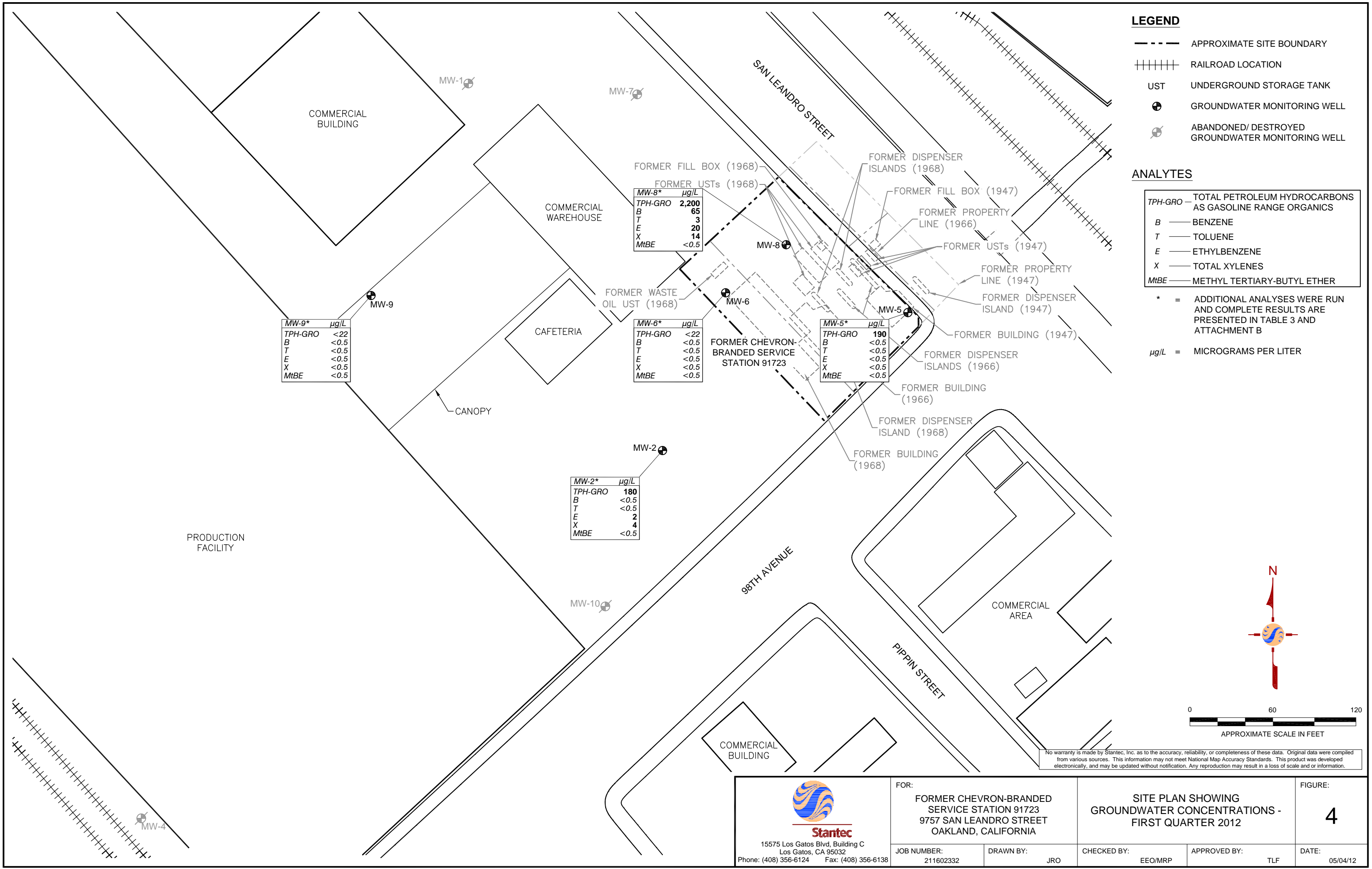


Equal Area Plot

Number of Points 3
 Class Size 5
 Vector Mean 265.68
 Vector Magnitude 2.98
 Consistency Ratio 0.99

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING THIRD QUARTER 2011.

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	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 05/04/12



LEGEND

- APPROXIMATE SITE BOUNDARY
- ++++ RAILROAD LOCATION
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- ⊗ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL

ANALYTES

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

* = ADDITIONAL ANALYSES WERE RUN AND COMPLETE RESULTS ARE PRESENTED IN TABLE 3 AND ATTACHMENT B

µg/L = MICROGRAMS PER LITER

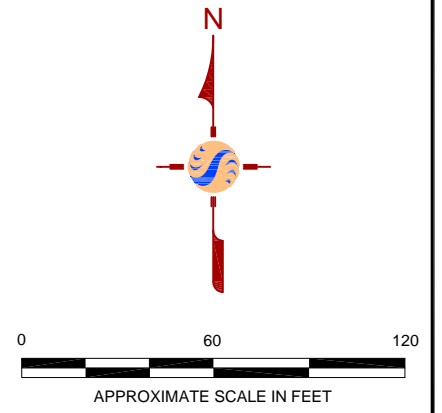
MW-9*	µg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

MW-8*	µg/L
TPH-GRO	2,200
B	65
T	3
E	20
X	14
MtBE	<0.5


MW-6*	µg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

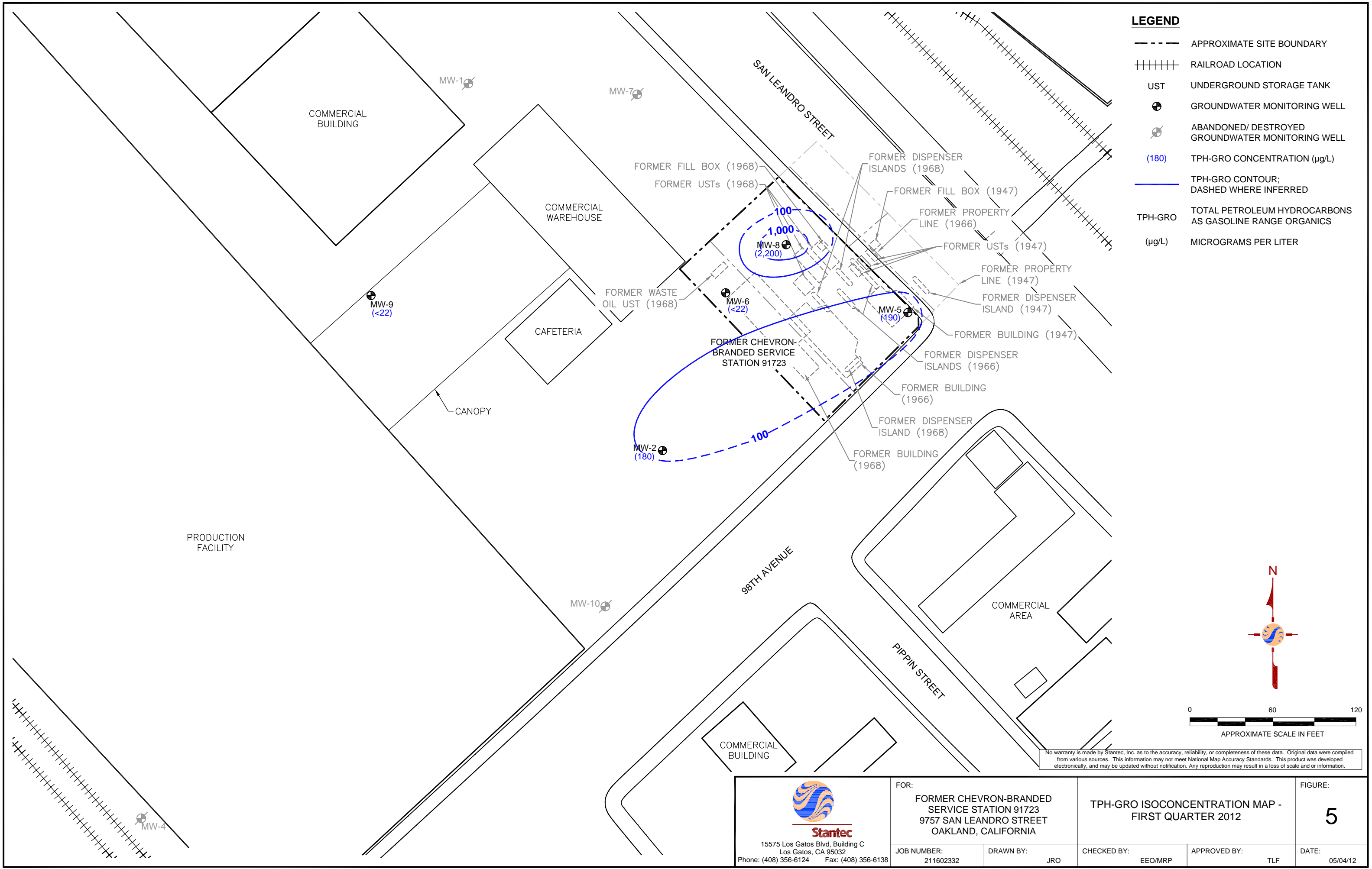
MW-5*	µg/L
TPH-GRO	190
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

MW-2*	µg/L
TPH-GRO	180
B	<0.5
T	<0.5
E	2
X	4
MtBE	<0.5

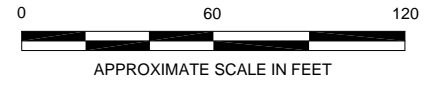


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	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 05/04/12

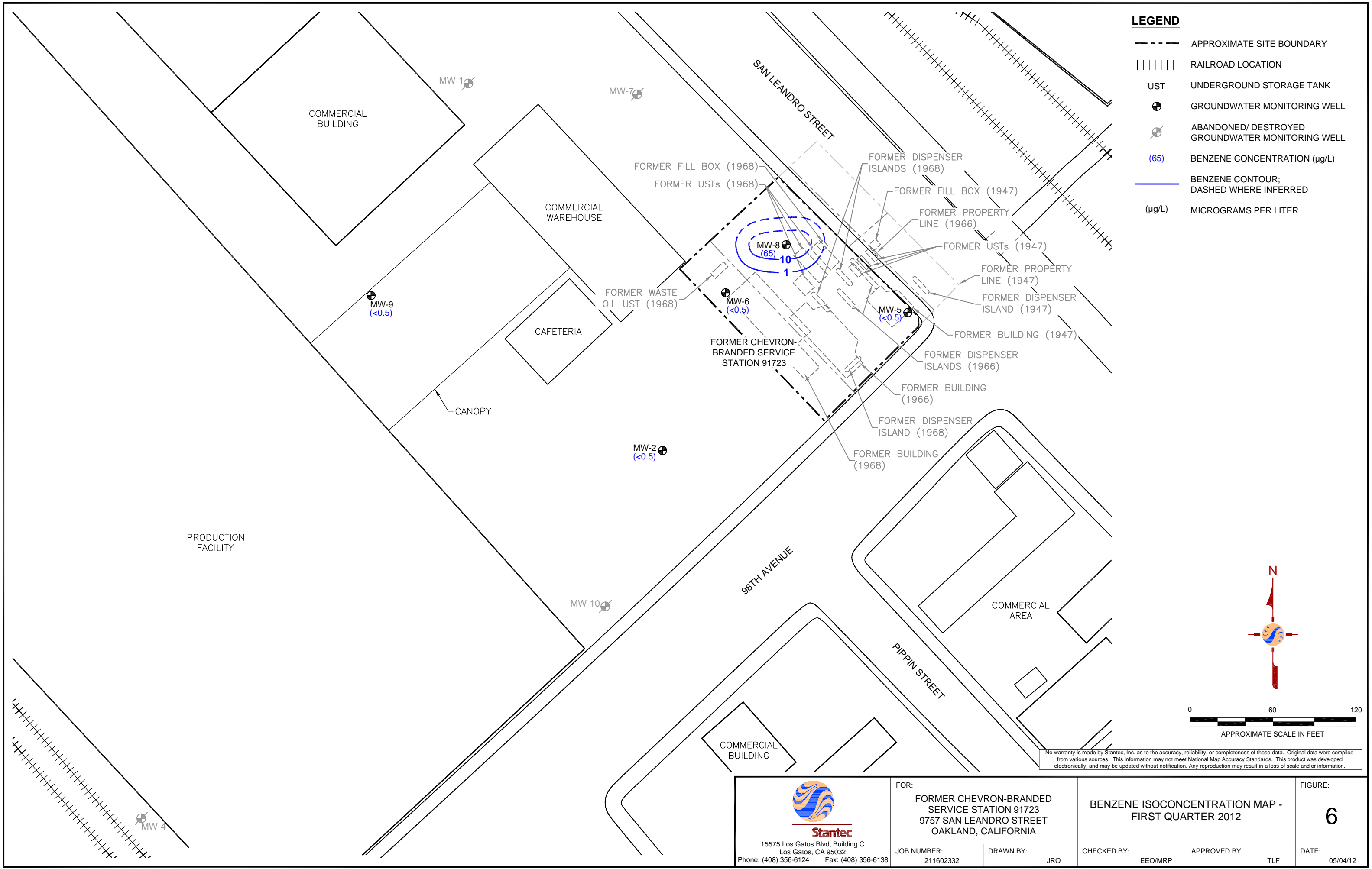


- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD LOCATION
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊕ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (180) TPH-GRO CONCENTRATION (µg/L)
 - TPH-GRO CONTOUR; DASHED WHERE INFERRED
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)

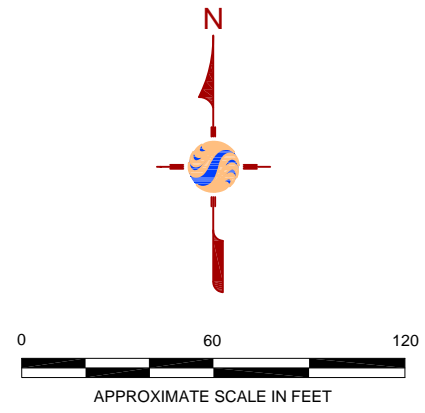


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	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 05/04/12



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ RAILROAD LOCATION
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (65) BENZENE CONCENTRATION (µg/L)
 - BENZENE CONTOUR; DASHED WHERE INFERRED
 - (µg/L) MICROGRAMS PER LITER



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	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 05/04/12

Attachment A

Blaine Tech Services, Inc. Groundwater Monitoring Report – First Quarter 2012



April 2, 2012

Chevron Environmental Management Company
Dave Patten
6111 Bollinger Canyon Rd.
San Ramon, CA 94583

First Quarter 2012 Monitoring at
Chevron Service Station 91723
9757 San Leandro Blvd.
Oakland, CA

Monitoring performed on March 30, 2012

Blaine Tech Services, Inc. Groundwater Monitoring Event 120330-WW2

This submission covers the routine monitoring of groundwater wells conducted on March 30, 2012 at this location. Five monitoring wells were measured for depth to groundwater (DTW). Five monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged of three case volumes, depending on well recovery, or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air-displacement pumps or stainless steel, Teflon or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols using disposable bailers. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

First Quarter Groundwater Monitoring at Chevron 91723, 9757 San Leandro Blvd., Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC. 746684

www.blainetech.com

Samples were delivered under chain-of-custody to Lancaster Laboratories of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to IWM facilities of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,



Dustin Becker
Blaine Tech Services, Inc.
Senior Project Manager

attachments: SOP
Well Gauging Sheet
Individual Well Monitoring Data Sheets
Chain of Custody
Wellhead Inspection Form
Bill of Lading
Calibration Log

cc: Stantec
Attn: Travis Flora
15575 Los Gatos Blvd Building C
Los Gatos, CA 95032

First Quarter Groundwater Monitoring at Chevron 91723, 9757 San Leandro Blvd., Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

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BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be

evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site. The Duplicate sample is collected, typically from the well containing the most measurable contaminants. The Duplicate sample is labeled the same as the original.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

CHEVRON WELL MONITORING DATA SHEET

Project #: 120330-WWL	Station #: 9-1723
Sampler: WW	Date: 3/30/12
Weather: overcast	Ambient Air Temperature: 64.4°F
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 21.62	Depth to Water: 8.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.74	

Purge Method:

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
- Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

2.2	(Gals.) X	3	=	6.6	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
0952	62.7	7.43	888	302	2.2	
0956	64.3	7.21	923	>1000	4.4	
0959	64.9	7.19	910	>1000	6.6	

Did well dewater? Yes No Gallons actually evacuated: 6.6

Sampling Date: 3/30/12 Sampling Time: 1010 Depth to Water: 8.06

Sample I.D.: MW-2 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see SOW

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.08	mg/L
	Pre-purge:	mV	Post-purge:	219	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120330-WWL	Station #: 9-1723
Sampler: WW	Date: 3/30/12
Weather: overcast	Ambient Air Temperature: 64.7 °F
Well I.D.: MW-5	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 17.64	Depth to Water: 7.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.86	

Purge Method:

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
- Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

- Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

1.6	(Gals.) X	3		=	4.8	Gals.
1 Case Volume		Specified Volumes		Calculated Volume		

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1045	65.3	7.57	774	>1000	1.6	
1048	64.9	7.30	780	>1000	3.2	
1051	64.5	7.17	788	>1000	4.8	

Did well dewater? Yes No Gallons actually evacuated: 4.8

Sampling Date: 3/30/12 Sampling Time: 1100 Depth to Water: 8.03

Sample I.D.: MW-5 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see SOW

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 1.11 mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: 222 mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120330-WWL	Station #: 9-1723
Sampler: WW	Date: 3/30/12
Weather: overcast	Ambient Air Temperature: 60.0 °F
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.62	Depth to Water: 8.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PWC Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.32	

Purge Method:

- Bailer
- (Disposible Bailer)
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

Bailer

- (Disposible Bailer)
- Extraction Port
- Dedicated Tubing
- Other: _____

1.9	(Gals.) X	3	=	5.7	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1019	65.4	7.43	907	980	1.9	
1023	65.9	7.13	905	>1000	3.8	
1026	65.8	7.15	895	>1000	5.7	

Did well dewater? Yes No Gallons actually evacuated: 5.7

Sampling Date: 3/30/12 Sampling Time: 1035 Depth to Water: 8.06

Sample I.D.: MW-6 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see SOW

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	(1.12)	mg/L
	Pre-purge:	mV	Post-purge:	(223)	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120330-WWL	Station #: 9-1723
Sampler: WW	Date: 3/30/12
Weather: overcast	Ambient Air Temperature: 66.6°F
Well I.D.: MW-8	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 20.07 18.27	Depth to Water: 8.12 8.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.51	

Purge Method:

Sampling Method: Bailer

- Bailer
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible
 Waterra
 Peristaltic
 Extraction Pump
 Other _____

- Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

1.9 (Gals.) X	3	= 5.7 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1109	63.7	7.67	899	>1000	1.9	
1112	66.3	7.17	995	>1000	3.8	odor
1115	63.3	7.26	986	>1000	5.7	"

Did well dewater? Yes No Gallons actually evacuated: 5.7

Sampling Date: 3/30/12 Sampling Time: 1125 Depth to Water: 8.17

Sample I.D.: MW-8 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see SOW

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.15	mg/L
	Pre-purge:	mV	Post-purge:	230	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120330-WW1	Station #: 9-1723
Sampler: WW	Date: 3/30/12
Weather: overcast	Ambient Air Temperature: 63.10F
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 20.07	Depth to Water: 7.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.03	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

Bailer

- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: _____

8.2 (Gals.) X	3 Specified Volumes	= 24.6 Gals. Calculated Volume
---------------	---------------------	--------------------------------

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0921	61.3	8.75	883	570	8.2	odor
0922	61.0	7.88	789	261	16.4	
0924	60.9	7.68	861	171	24.6	

Did well dewater? Yes No Gallons actually evacuated: 24.6

Sampling Date: 3/30/12 Sampling Time: 0940 Depth to Water: 7.59

Sample I.D.: MW-9 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see SOW

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.34 mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:

QAC 0815

P.003 02/82
 PAGE
 15102324913
 BASC
 13:29
 03/30/2012
 15102324913
 06:44
 RX Date/Time
 04/30/2008

Chevron Site Number: 91723
 Chevron Site Global ID: T0600101789
 Chevron Site Address: 9757 San Leandro St.,
 Oakland, CA
 Chevron PM: DAVE PATTEN
 Chevron PM Phone No.: (925)543-1740
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: STANTEC
 Address: 15575 Los Gatos Blvd., Bldg. C Los Gatos,
 CA
 Consultant Contact: Travis Flora
 Consultant Phone No. 408-356-6124
 Consultant Project No. 120330-WW2
 Sampling Company: Blaine Tech Services
 Sampled By (Print): WILLIAM WONG
 Sampler Signature: *[Signature]*

Charge Code: NWRBT 00SITE NUMBER-0-WBS
 (WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L
 THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT
 CORRECTLY AND COMPLETELY.

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)656-2300

Other Lab
 Temp. Blank Check
 Time Temp.
 0815 1°C
 1015 7°C

ANALYSES REQUIRED										
#										Preservation Codes
	<input type="checkbox"/> HVOCC	<input type="checkbox"/> OXYGENATES	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> HC SCREEN					H = HCL T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other
	<input type="checkbox"/> GRO	<input type="checkbox"/> MTBE	<input type="checkbox"/> GRO	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> HC SCREEN				
	<input type="checkbox"/> EPA 8015B	<input type="checkbox"/> EPA 8021B	<input type="checkbox"/> EPA 8010	<input type="checkbox"/> Ca, Fe, K, Mg, Mn, Na	<input type="checkbox"/> EPA 6010	<input type="checkbox"/> EPA 6010/7000	<input type="checkbox"/> TITLE 22 METALS	<input type="checkbox"/> TTLC	<input type="checkbox"/> STLC	
	<input type="checkbox"/> EPA 150.1 PH	<input type="checkbox"/> EPA 310.1	<input checked="" type="checkbox"/> ALKALINITY							
	<input type="checkbox"/> EPA 418.1 TRPH	<input type="checkbox"/> EPA 413.1	<input type="checkbox"/> OIL & GREASE							
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CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY IWM TO THEIR FACILITY IN SAN JOSE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Ave. San Jose CA (408)573-0555). Blaine Tech Services, Inc. is authorized by CHEVRON PRODUCTS COMPANY (CHEVRON) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the CHEVRON facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Chevron facility to BTS; from one Chevron facility to BTS via another Chevron facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of CHEVRON.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

9-1723
 CHEVRON # 9-1723 DAVE PATTON
 Chevron Engineer
9757 SAN LEONARD RD ST, OAKLAND, CA
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-2	6.6	/	
MW-5	4.8	/	
MW-6	5.7	/	
MW-8	5.7	/	
MW-9	24.6	/	
/		/	
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added equip. rinse water 12.6 any other adjustments /

TOTAL GALS. RECOVERED 50 loaded onto BTS vehicle # 76

BTS event # 120330-WW2 time _____ date 3/30/12

signature [Signature]

REC'D AT BTS-SAN JOSE time _____ date 3/30/12

unloaded by signature [Signature]

Attachment B

Certified Laboratory Analysis Reports and Chain-of-Custody Documents

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

April 30, 2012

Project: 91723

Submittal Date: 03/31/2012
Group Number: 1299274
PO Number: 0015101071
Release Number: HORNE
State of Sample Origin: CA

Client Sample Description

MW-2-W-120330 NA Water
MW-5-W-120330 NA Water
MW-6-W-120330 NA Water
MW-8-W-120330 NA Water
MW-9-W-120330 NA Water
QA-T-120330 NA Water

Lancaster Labs (LLI)

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

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Stantec

Attn: Laura Viesselman
Attn: Travis Flora
Attn: Marisa Patterson
Attn: Erin O'Malley

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-2-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-2

LLI Sample # WW 6600693
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 10:10 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	180	22	1
10945	Ethylbenzene	100-41-4	2	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	4	0.5	1
GC Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	330	5.0	1
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	320	250	5
00228	Sulfate	14808-79-8	10,600	1,500	5
SM20 2320 B			ug/l as CaCO3	ug/l as CaCO3	
00202	Alkalinity to pH 4.5	n.a.	545,000	460	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	1
SM20 3500 Fe B modified			ug/l	ug/l	
08344	Ferrous Iron	n.a.	2,200	100	10
SM20 4500 S2 D			ug/l	ug/l	
00230	Sulfide	18496-25-8	N.D.	270	5
Reporting limits were raised due to interference from the sample matrix.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120982AA	04/07/2012 23:46	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120982AA	04/07/2012 23:46	Holly Berry	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	121020040A	04/11/2012 23:18	Elizabeth J Marin	1
00368	Nitrate Nitrogen	EPA 300.0	1	12091655902B	03/31/2012 16:37	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12091655902B	03/31/2012 16:37	Christopher D Meeks	5

Sample Description: MW-2-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-2

LLI Sample # WW 6600693
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 10:10 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12096834401A	04/05/2012 19:20	Daniel S Smith	10
00230	Sulfide	SM20 4500 S2 D	1	12096023001A	04/05/2012 08:30	Susan E Hibner	5

Sample Description: MW-5-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-5

LLI Sample # WW 6600694
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 11:00 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	190	22	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 Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	110	5.0	1
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	440	250	5
00228	Sulfate	14808-79-8	30,200	1,500	5
SM20 2320 B			ug/l as CaCO3	ug/l as CaCO3	
00202	Alkalinity to pH 4.5	n.a.	370,000	460	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	1
SM20 3500 Fe B modified			ug/l	ug/l	
08344	Ferrous Iron	n.a.	300	10	1
SM20 4500 S2 D			ug/l	ug/l	
00230	Sulfide	18496-25-8	N.D.	270	5
Reporting limits were raised due to interference from the sample matrix.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120982AA	04/08/2012 00:10	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120982AA	04/08/2012 00:10	Holly Berry	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	121020040A	04/11/2012 23:37	Elizabeth J Marin	1
00368	Nitrate Nitrogen	EPA 300.0	1	12091655902B	03/31/2012 17:06	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12091655902B	03/31/2012 17:06	Christopher D Meeks	5

Sample Description: MW-5-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-5

LLI Sample # WW 6600694
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 11:00 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12096834401A	04/05/2012 19:20	Daniel S Smith	1
00230	Sulfide	SM20 4500 S2 D	1	12096023001A	04/05/2012 08:30	Susan E Hibner	5

Sample Description: MW-6-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-6

LLI Sample # WW 6600695
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 10:35 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	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 Miscellaneous SW-846 8015B modified					
07105	Methane	74-82-8	62	5.0	1
Wet Chemistry EPA 300.0					
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	5,600	1,500	5
SM20 2320 B					
00202	Alkalinity to pH 4.5	n.a.	455,000	460	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	1
SM20 3500 Fe B modified					
08344	Ferrous Iron	n.a.	210	10	1
SM20 4500 S2 D					
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120982AA	04/08/2012 00:34	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120982AA	04/08/2012 00:34	Holly Berry	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	121020040A	04/11/2012 23:56	Elizabeth J Marin	1
00368	Nitrate Nitrogen	EPA 300.0	1	12091655902B	03/31/2012 16:52	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12091655902B	03/31/2012 16:52	Christopher D Meeks	5
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1

Sample Description: MW-6-W-120330 NA Water
 Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-6

LLI Sample # WW 6600695
 LLI Group # 1299274
 Account # 10869

Project Name: 91723

Collected: 03/30/2012 10:35 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12096834401A	04/05/2012 19:20	Daniel S Smith	1
00230	Sulfide	SM20 4500 S2 D	1	12096023001A	04/05/2012 08:30	Susan E Hibner	1

Sample Description: MW-8-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-8

LLI Sample # WW 6600696
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 11:25 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
10945	Benzene	71-43-2	65	0.5	1
10945	C6-C12-TPH-GRO	n.a.	2,200	22	1
10945	Ethylbenzene	100-41-4	20	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	3	0.5	1
10945	Xylene (Total)	1330-20-7	14	0.5	1
GC Miscellaneous			SW-846 8015B modified	ug/l	
07105	Methane	74-82-8	2,100	50	10
Wet Chemistry			EPA 300.0	ug/l	
00368	Nitrate Nitrogen	14797-55-8	2,300	250	5
00228	Sulfate	14808-79-8	32,200	1,500	5
			SM20 2320 B	ug/l as CaCO3	
00202	Alkalinity to pH 4.5	n.a.	454,000	460	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	1
			SM20 3500 Fe B modified	ug/l	
08344	Ferrous Iron	n.a.	29,300	1,000	100
			SM20 4500 S2 D	ug/l	
00230	Sulfide	18496-25-8	780	540	10
Reporting limits were raised due to interference from the sample matrix.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120982AA	04/08/2012 00:58	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120982AA	04/08/2012 00:58	Holly Berry	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	121020040A	04/12/2012 19:49	Elizabeth J Marin	10
00368	Nitrate Nitrogen	EPA 300.0	1	12091655902B	03/31/2012 17:48	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12091655902B	03/31/2012 17:48	Christopher D Meeks	5

Sample Description: MW-8-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-8

LLI Sample # WW 6600696
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 11:25 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12096834401A	04/05/2012 19:20	Daniel S Smith	100
00230	Sulfide	SM20 4500 S2 D	1	12096023001A	04/05/2012 08:30	Susan E Hibner	10

Sample Description: MW-9-W-120330 NA Water
Facility# 91723 BTST
 9757 San Leandro-Oakland T0600101789 MW-9

LLI Sample # WW 6600697
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 09:40 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	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 Miscellaneous SW-846 8015B modified					
07105	Methane	74-82-8	N.D.	5.0	1
Wet Chemistry EPA 300.0					
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	7,400	1,500	5
SM20 2320 B					
00202	Alkalinity to pH 4.5	n.a.	381,000	460	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	460	1
SM20 3500 Fe B modified					
08344	Ferrous Iron	n.a.	31	10	1
SM20 4500 S2 D					
00230	Sulfide	18496-25-8	N.D.	54	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120982AA	04/08/2012 01:22	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120982AA	04/08/2012 01:22	Holly Berry	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	121020040A	04/12/2012 00:33	Elizabeth J Marin	1
00368	Nitrate Nitrogen	EPA 300.0	1	12091655902B	03/31/2012 16:23	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	12091655902B	03/31/2012 16:23	Christopher D Meeks	5
00202	Alkalinity to pH 4.5	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1

Sample Description: MW-9-W-120330 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 MW-9

LLI Sample # WW 6600697
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 09:40 by WW

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 03/31/2012 09:35

Reported: 04/30/2012 13:40

SLO09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00201	Alkalinity to pH 8.3	SM20 2320 B	1	12095020201B	04/04/2012 09:10	Hannah M Royer	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	12096834401A	04/05/2012 19:20	Daniel S Smith	1
00230	Sulfide	SM20 4500 S2 D	1	12096023001A	04/05/2012 08:30	Susan E Hibner	1

Sample Description: QA-T-120330 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 QA

LLI Sample # WW 6600698
LLI Group # 1299274
Account # 10869

Project Name: 91723

Collected: 03/30/2012 08:15

ChevronTexaco

Submitted: 03/31/2012 09:35

6001 Bollinger Canyon Rd L4310

Reported: 04/30/2012 13:40

San Ramon CA 94583

SLOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	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

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	Z120982AA	04/07/2012 20:35	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z120982AA	04/07/2012 20:35	Holly Berry	1

Quality Control Summary

Client Name: ChevronTexaco
Reported: 04/30/12 at 01:40 PM

Group Number: 1299274

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

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Z120982AA	Sample number(s): 6600693-6600698							
Benzene	N.D.	0.5	ug/l	94	94	77-121	0	30
C6-C12-TPH-GRO	N.D.	22.	ug/l	140	137	80-160	2	30
Ethylbenzene	N.D.	0.5	ug/l	99	101	79-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100	102	68-121	2	30
Toluene	N.D.	0.5	ug/l	102	102	79-120	1	30
Xylene (Total)	N.D.	0.5	ug/l	102	104	77-120	2	30
Batch number: 121020040A	Sample number(s): 6600693-6600697							
Methane	N.D.	5.0	ug/l	95		80-120		
Batch number: 12091655902B	Sample number(s): 6600693-6600697							
Nitrate Nitrogen	N.D.	50.	ug/l	102		90-110		
Sulfate	N.D.	300.	ug/l	107		90-110		
Batch number: 12095020201B	Sample number(s): 6600693-6600697							
Alkalinity to pH 4.5	N.D.	460.	ug/l as CaCO3	99		98-103		
Batch number: 12096023001A	Sample number(s): 6600693-6600697							
Sulfide	N.D.	54.	ug/l	110		90-110		
Batch number: 12096834401A	Sample number(s): 6600693-6600697							
Ferrous Iron	N.D.	10.	ug/l	98		93-105		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121020040A	Sample number(s): 6600693-6600697 UNSPK: P600563								
Methane	-149	183 (2)	35-157	28*	20				
Batch number: 12091655902B	Sample number(s): 6600693-6600697 UNSPK: P600095 BKG: P600095								
Nitrate Nitrogen	97		90-110			3,500	3,500	1	20
Sulfate	97		90-110			10,600	10,400	2 (1)	20
Batch number: 12095020201B	Sample number(s): 6600693-6600697 UNSPK: P599925 BKG: P599925								
Alkalinity to pH 4.5	98	99	73-121	0	5	229,000	230,000	1	5

*- Outside of specification

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

Quality Control Summary

Client Name: ChevronTexaco
Reported: 04/30/12 at 01:40 PM

Group Number: 1299274

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)	5
Batch number: 12096023001A	Sample number(s): 6600693-6600697 UNSPK: P600333 BKG: P600333								
Sulfide	130	104	50-130	13*	10	380	370	3 (1)	5
Batch number: 12096834401A	Sample number(s): 6600693-6600697 UNSPK: P606765 BKG: P606765								
Ferrous Iron	97	101	83-108	3	6	6,900	7,000	1 (1)	5

Surrogate Quality Control

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

Analysis Name: UST VOCs + GRO by 8260B-Water
Batch number: Z120982AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6600693	104	97	102	93
6600694	103	98	103	94
6600695	104	97	101	93
6600696	103	97	102	99
6600697	104	97	100	92
6600698	105	98	100	91
Blank	106	98	101	92
LCS	103	101	100	99
LCSD	103	102	101	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 121020040A
Propene

6600693	72
6600694	71
6600695	48
6600696	85
6600697	69
Blank	91
LCS	92
MS	54
MSD	68
Limits:	42-131

*- Outside of specification

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

033012-02
CHAIN OF CUSTODY FORM
Chevron Environmental Management Company ■ 6111 Bollinger Canyon Rd. ■ San Ramon, CA 94583

COC 1 of 1

Chevron Site Number: 91723
 Chevron Site Global ID: T0600101789
 Chevron Site Address: 9757 San Leandro St., Oakland, CA
 Chevron PM: DAVE PATTEN
 Chevron PM Phone No.: (925)543-1740
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: STANTEC
 Address: 15575 Los Gatos Blvd., Bldg. C Los Gatos, CA
 Consultant Contact: Travis Flora
 Consultant Phone No. 408-356-6124
 Consultant Project No. 120330-WW2
 Sampling Company: Blaine Tech Services
 Sampled By (Print): WILLIAM WONG
 Sampler Signature: [Signature]

ANALYSES REQUIRED																													
#										Preservation Codes																			
	<input type="checkbox"/> EPA 8260B/GC/MS TPH-LG	<input type="checkbox"/> BIEX	<input type="checkbox"/> MTBE	<input type="checkbox"/> OXYGENATES	<input type="checkbox"/> HVOC	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> HC SCREEN	<input type="checkbox"/> EPA 8015B	<input type="checkbox"/> GRO	<input type="checkbox"/> EPA 8021B BTEX	<input type="checkbox"/> MTBE	<input type="checkbox"/> EPA 6010 Ca, Fe, K, Mg, Mn, Na	<input type="checkbox"/> EPA 6010/7000 TITL 22 METALS	<input type="checkbox"/> TLIC	<input type="checkbox"/> STLC	<input checked="" type="checkbox"/> EPA 310.1 ALKALINITY	<input type="checkbox"/> EPA 413.1 OIL & GREASE	<input type="checkbox"/> EPA 418.1 TRPH	<input type="checkbox"/> EPA 8260	<input type="checkbox"/> ETHANOL	<input type="checkbox"/> SULFATE	<input type="checkbox"/> NITRATE	<input type="checkbox"/> 300.0	<input type="checkbox"/> EPA 8045	<input type="checkbox"/> METHANE	<input type="checkbox"/> 8015B	<input type="checkbox"/> Sulfide (SM 20 4SD0 52D)	H = HCL T= Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other

Charge Code: NWRTB 00SITE NUMBER-0-WBS
(WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L
THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)656-2300

Other Lab	Temp. Blank Check Time	Temp.
	0815	10C
	1015	10C

SAMPLE ID				Sample Time	# of Containers	Container Type	ANALYSES REQUIRED										Notes/Comments														
Field Point Name	Matrix	Top Depth	Date (yyymmdd)				EPA 8260B/GC/MS TPH-LG	BIEX	MTBE	OXYGENATES	HVOC	EPA 8015B	GRO	EPA 8021B BTEX	MTBE	EPA 6010 Ca, Fe, K, Mg, Mn, Na		EPA 6010/7000 TITL 22 METALS	TLIC	STLC	EPA 310.1 ALKALINITY	EPA 413.1 OIL & GREASE	EPA 418.1 TRPH	EPA 8260	ETHANOL	SULFATE	NITRATE	300.0	EPA 8045	METHANE	8015B
MW-2	W		120330	1010	13	mixed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MW-5				1100	13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MW-6				1035	13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MW-8				1125	13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MW-9				0940	13		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
QA				0815	2	HCl vials	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Relinquished By: [Signature] Company: BLAINE TECH SERVICES Date/Time: 3/30/12 1240
 Relinquished By: [Signature] Company: LLI Date/Time: 30 MAR 12 1635
 Relinquished By: [Signature] Company: LLI Date/Time: 3/31/12 0935

Relinquished To: [Signature] Company: LLI Date/Time: 3/30/12 1240
 Relinquished To: [Signature] Company: FEDEx
 Relinquished To: [Signature] Company: LLI Date/Time: 3/31/12 0935

Turnaround Time: Standard 24 Hours 48 hours 72 Hours Other
 Sample Integrity: (Check by lab on arrival)
 Intact: On Ice: Temp: 41-44C
 COC #

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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Attachment C

Historical Groundwater Analytical Results

Table 2. Summary of Chemical Results from Ground-water Samples

WELL NUMBER	SAMPLING DATE	TPH	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES, TOTAL	OTHER DETECTABLE VOLATILE COMPOUNDS			
		(GASOLINE) mg/l	ug/l	ug/l	ug/l	ug/l	1,1-DCE ug/l	1,1-DCA ug/l	1,1,1-TCA ug/l	1,2-DCA ug/l
MW-1	18-Apr-87	NT	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	61	9.5	93.1	0.5
	03-Jun-88	NT	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	8	40	ND(5)
	08-Aug-89	ND(0.05)	ND(1)	ND(1)	ND(1)	ND(1)	47	9	21	ND(1)
MW-2	18-Apr-87	NT	76.9	121	93.4	477	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)
	03-Jun-88	NT	64	18	48	60	ND(5)	ND(5)	ND(5)	ND(5)
	08-Aug-89	1.1	48	9	33	55	ND(1)	ND(1)	ND(1)	ND(1)
MW-4	18-Apr-87	NT	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)
	03-Jun-88	NT	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
	08-Aug-89	ND(0.05)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
MW-5	03-Jun-88	NT	93	ND(5)	100	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
	08-Aug-89	ND(0.05)	49	8	15	63	ND(1)	ND(1)	ND(1)	ND(1)
MW-6	03-Jun-88	NT	110	140	35	210	ND(5)	ND(5)	ND(5)	ND(5)
	08-Aug-89	1.0	45	8	15	74	ND(1)	ND(1)	ND(1)	ND(1)
MW-7	03-Jun-88	NT	ND(5)	ND(5)	ND(5)	ND(5)	25	5	18	ND(5)
	08-Aug-89	ND(0.05)	ND(1)	ND(1)	ND(1)	ND(1)	39	8	13	ND(1)
MW-8	03-Jun-88	NT	2300	2000	950	4100	ND(5)	ND(5)	ND(5)	ND(5)
	08-Aug-89	77	1900	820	1000	3600	ND(1)	ND(1)	ND(1)	ND(1)
MW-9	08-Aug-89	ND(0.05)	ND(1)	ND(1)	ND(1)	ND(1)	3	ND(1)	ND(1)	ND(1)
MW-10	08-Aug-89	ND(0.05)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Field	03-Jun-88	NT	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
Blank	08-Aug-89	ND(0.05)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)

NOTES:

mg/l: milligrams per liter (equivalent to parts per million)

ug/l: micrograms per liter (equivalent to parts per billion)

NT: Not Tested

ND: Not detected; Limit of detection indicated in parenthesis

1,1-DCE: 1,1-Dichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1,1-TCA: 1,1,1-Trichloroethane

1,2-DCA: 1,2-Dichloroethane

Volatile Organics in Water by EPA Method 624
 Total Petroleum Hydrocarbons (TPH) as Gasoline
 in Aqueous Solutions by EPA Method 8015 (Modified)
 Extraction by EPA Method 5030, Purge and Trap

April 18, 1987 Results from Beta Associates (1987)

June 3, 1988 Results from Groundwater Technology (1988)

August 8, 1989 Results from Curtis & Tompkins, Ltd.

Table 3. Water-Level Elevations

WELL NUMBER	MW-1	MW-2	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Top of Casing Elevation	18.05	18.42	18.74	18.96	18.71	18.05	18.97	17.66	18.36
DATE	DEPTH TO WATER (FEET) FROM TOP OF CASING								
20-Apr-87	10.28	10.38	NA	10.84	NA	NA	NA	NA	NA
22-Jul-88	10.48	10.71	11.43	10.86	11.00	10.39	11.04	NM	NM
04-Aug-89	10.41	NM	NM	10.63	10.91	NM	10.95	NM	NM
08-Aug-89	10.40	10.56	11.19	10.77	10.89	10.27	10.98	10.11	10.53
DATE	GROUND-WATER ELEVATION (FEET) ABOVE MEAN SEA LEVEL								
20-Apr-87	7.77	8.04	NA	8.12	NA	NA	NA	NA	NA
22-Jul-88	7.57	7.71	7.31	8.10	7.71	7.66	7.93	NM	NM
04-Aug-89	7.64	NM	NM	8.33	7.80	NM	8.02	NM	NM
08-Aug-89	7.65	7.86	7.55	8.19	7.82	7.78	7.99	7.55	7.83

NOTES:

NA: Not Applicable, Monitoring Well Not Yet Installed
 NM: Not Measured

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Lead	MTBE
MW-1											
11/02/93	20.92	10.68	10.24	--	--	--	--	--	--	--	--
02/10/94	20.92	--	--	--	--	--	--	--	--	--	--
05/12/94	20.92	--	--	--	--	--	--	--	--	--	--
08/26/94	20.92	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

MW-2

11/02/93	21.31	10.83	10.48	--	--	--	--	--	--	--	--
02/10/94	21.31	--	--	--	--	--	--	--	--	--	--
05/12/94	21.31	11.94	9.37	--	390	6.8	2.0	6.3	14	--	--
08/26/94	21.31	--	--	Sampled biannually	--	--	--	--	--	--	--
02/01/95	21.31	13.76	7.55	--	78	10	1.2	<0.5	0.51	--	--
08/02/95	21.31	11.53	9.78	--	100	3.5	<0.5	2.6	4.1	--	--
01/31/96	21.31	14.38	6.93	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
08/01/96	21.31	11.49	9.82	--	73	<0.5	<0.5	<0.5	<0.5	--	610
12/17/96	21.31	12.75	8.56	--	--	--	--	--	--	--	--
02/20/97	21.31	12.30	9.01	--	280	6.7	0.56	1.5	2.9	--	11
05/02/97	21.31	11.78	9.53	--	--	--	--	--	--	--	--
07/23/97	21.31	11.23	10.08	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
02/04/98	21.31	16.06	5.25	--	<50	1.1	<0.5	<0.5	<0.5	--	5.6
07/17/98	21.31	11.71	9.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

MW-4

11/02/93	--	--	10.23	--	--	--	--	--	--	--	--
02/10/94	--	--	--	--	--	--	--	--	--	--	--
05/12/94	--	--	--	--	--	--	--	--	--	--	--
08/26/94	--	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Lead	MTBE
MW-5											
11/02/93	21.84	11.15	10.69	--	790	43	3.4	22	12	<400	--
02/10/94	21.84	13.10	8.74	--	1400	52	3.0	50	40	--	--
05/12/94	21.84	12.40	9.44	--	1800	87	6.2	77	66	--	--
08/26/94	21.84	--	--	--	--	--	--	--	--	--	--
11/11/94	21.84	13.50	8.34	--	380	18	<1.0	18	11	--	--
02/01/95	21.84	14.32	7.52	--	570	36	0.59	21	11	--	--
05/18/95	21.84	12.87	8.97	--	590	29	1.0	16	9.8	--	--
08/02/95	21.84	11.98	9.86	--	210	9.2	<0.5	4.0	1.2	--	--
11/01/95	21.84	11.58	10.26	--	210	5.6	<0.5	1.9	<0.5	--	<2.5
01/31/96	21.84	14.72	7.12	--	1200	50	<5.0	19	29	--	<25
05/16/96	21.84	14.22	7.62	--	440	14	<0.5	17	8.6	--	11
08/01/96	21.84	11.86	9.98	--	58	1.4	<0.5	<0.5	<0.5	--	2.5
12/17/96	21.84	13.13	8.71	--	300	9.7	<0.5	11	6.3	--	6.9
02/20/97	21.84	12.81	9.03	--	350	6.7	<0.5	4.3	1.9	--	5.0
05/02/97	21.84	12.50	9.34	--	270	4.8	<0.5	3.5	1.3	--	7.3
07/23/97	21.84	11.70	10.14	--	290	3.4	<0.5	<0.5	<0.5	--	3.1
11/04/97	21.84	11.69	10.15	--	180	3.8	<0.5	1.5	<0.5	--	8.6
02/04/98	21.84	16.54	5.30	--	140	4.3	<0.5	8.5	<0.5	--	<2.5
05/01/98	21.84	12.77	9.07	--	1200	19	<1.0	9.7	1.7	--	25
07/17/98	21.84	12.19	9.65	--	900	3.6	<2.0	12	2.6	--	11

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Lead	MTBE
MW-6											
11/02/93	21.71	10.93	10.78	--	300	19	1.8	2.5	5.0	<400	--
02/10/94	21.71	12.86	8.85	--	200	10	0.9	2.0	4.0	--	--
05/12/94	21.71	12.08	9.63	--	210	10	1.1	1.2	3.1	--	--
08/26/94	21.71	10.82	10.89	--	310	16	1.4	2.3	7.1	--	--
11/11/94	21.71	13.25	8.46	--	<50	1.3	<0.5	<0.5	1.0	--	--
02/01/95	21.71	14.02	7.69	--	<50	1.9	<0.5	<0.5	0.51	--	--
05/18/95	21.71	12.43	9.28	--	<50	8.2	<0.5	<0.5	<0.5	--	--
08/02/95	21.71	11.64	10.07	--	<50	2.3	<0.5	<0.5	<0.5	--	--
11/01/95	21.71	11.31	10.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
01/31/96	21.71	13.63	8.08	--	<50	0.98	<0.5	<0.5	<0.5	--	<2.5
05/16/96	21.71	13.91	7.80	--	<50	1.6	<0.5	<0.5	<0.5	--	<2.5
08/01/96	21.71	11.56	10.15	--	<50	0.82	<0.5	<0.5	<0.5	--	<2.5
12/17/96	21.71	13.26	8.45	--	63	2.6	<0.5	<0.5	<0.5	--	<2.5
02/20/97	21.71	--	--	Inaccessible	--	--	--	--	--	--	--
05/02/97	21.71	--	--	Inaccessible	--	--	--	--	--	--	--
05/29/97	21.71	11.72	9.99	--	120	1.8	<0.5	<0.5	<0.5	--	2.6
07/23/97	21.71	11.31	10.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
11/04/97	21.71	11.38	10.33	--	63	1.2	<0.5	<0.5	<0.5	--	<2.5
02/04/98	21.71	16.19	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
05/01/98	21.71	12.40	9.31	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
07/17/98	21.71	11.84	9.87	--	<50	1.0	<0.5	<0.5	<0.5	--	<2.5

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Lead	MTBE
MW-7											
11/02/93	20.95	10.88	10.07	--	--	--	--	--	--	--	--
02/10/94	20.95	--	--	--	--	--	--	--	--	--	--
05/12/94	20.95	--	--	--	--	--	--	--	--	--	--
08/26/94	20.95	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

MW-8											
11/02/93	21.84	11.02	10.82	--	15,000	2000	440	420	1400	<400	--
02/10/94	21.84	12.97	8.87	--	6500	1200	380	250	7900	--	--
05/12/94	21.84	12.19	9.65	--	30,000	1400	2900	800	3800	--	--
08/26/94	21.84	10.90	10.94	--	17,000	720	200	330	930	--	--
11/11/94	21.84	13.38	8.46	--	6800	250	170	190	650	--	--
02/01/95	21.84	14.36	7.48	--	330	68	2.8	2.7	4.3	--	--
05/18/95	21.84	12.54	9.30	--	540	120	12	11	23	--	--
08/02/95	21.84	11.73	10.11	--	1100	150	9.7	20	40	--	--
11/01/95	21.84	11.36	10.48	--	1700	120	15	16	39	--	<5.0
01/31/96	21.84	14.64	7.20	--	57	5.3	<0.5	<0.5	<0.5	--	<2.5
05/16/96	21.84	13.99	7.85	--	2100	260	43	56	130	--	64
08/01/96	21.84	11.59	10.25	--	1100	45	0.92	8.9	25	--	7.4
12/17/96	21.84	12.95	8.89	--	2000	280	30	51	88	--	22
02/20/97	21.84	--	--	Inaccessible	--	--	--	--	--	--	--
05/02/97	21.84	--	--	Inaccessible	--	--	--	--	--	--	--
05/29/97	21.84	11.79	10.05	--	3400	280	31	53	120	--	<50
07/23/97	21.84	11.48	10.36	--	760	20	2.2	2.6	5.0	--	9.7
11/04/97	21.84	11.49	10.35	--	1100	150	13	22	39	--	49
02/04/98	21.84	16.29	5.55	--	270	6.8	<0.5	3.3	<0.5	--	<2.5
05/01/98	21.84	12.62	9.22	--	190	5.3	<0.5	<0.5	0.75	--	2.8
07/17/98	21.84	11.89	9.95	--	1400	210	20	24	54	--	<25

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Lead	MTBE
MW-9											
11/02/93	20.55	10.53	10.02	--	--	--	--	--	--	--	--
02/10/94	20.55	--	--	--	--	--	--	--	--	--	--
05/12/94	20.55	11.60	8.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	20.55	--	--	Sampled biannually	--	--	--	--	--	--	--
02/01/95	20.55	13.35	7.20	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/02/95	20.55	11.22	9.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/96	20.55	14.10	6.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
08/01/96	20.55	11.20	9.35	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/17/96	20.55	12.29	8.26	--	--	--	--	--	--	--	--
02/20/97	20.55	12.09	8.46	--	55*	1.1	<0.5	<0.5	<0.5	--	<2.5
05/02/97	20.55	11.45	9.10	--	--	--	--	--	--	--	--
07/23/97	20.55	10.95	9.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
02/04/98	20.55	15.51	5.04	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
07/17/98	20.55	11.37	9.18	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

MW-10

11/02/93	21.25	10.93	10.32	--	--	--	--	--	--	--	--
02/10/94	21.25	--	--	--	--	--	--	--	--	--	--
05/12/94	21.25	--	--	--	--	--	--	--	--	--	--
08/26/94	21.25	--	--	--	--	--	--	--	--	--	--

NO LONGER MONITORED OR SAMPLED

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	Lead	MTBE
TRIP BLANK											
02/10/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/11/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/18/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/02/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/31/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
05/16/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
08/01/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
12/17/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
02/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
05/02/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
07/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
02/04/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
05/01/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5
07/17/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	<2.5

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 1, 1994.
 Earlier field data and analytical results are drawn from the September 14, 1994 Groundwater Technology, Inc. report.

ABBREVIATIONS:

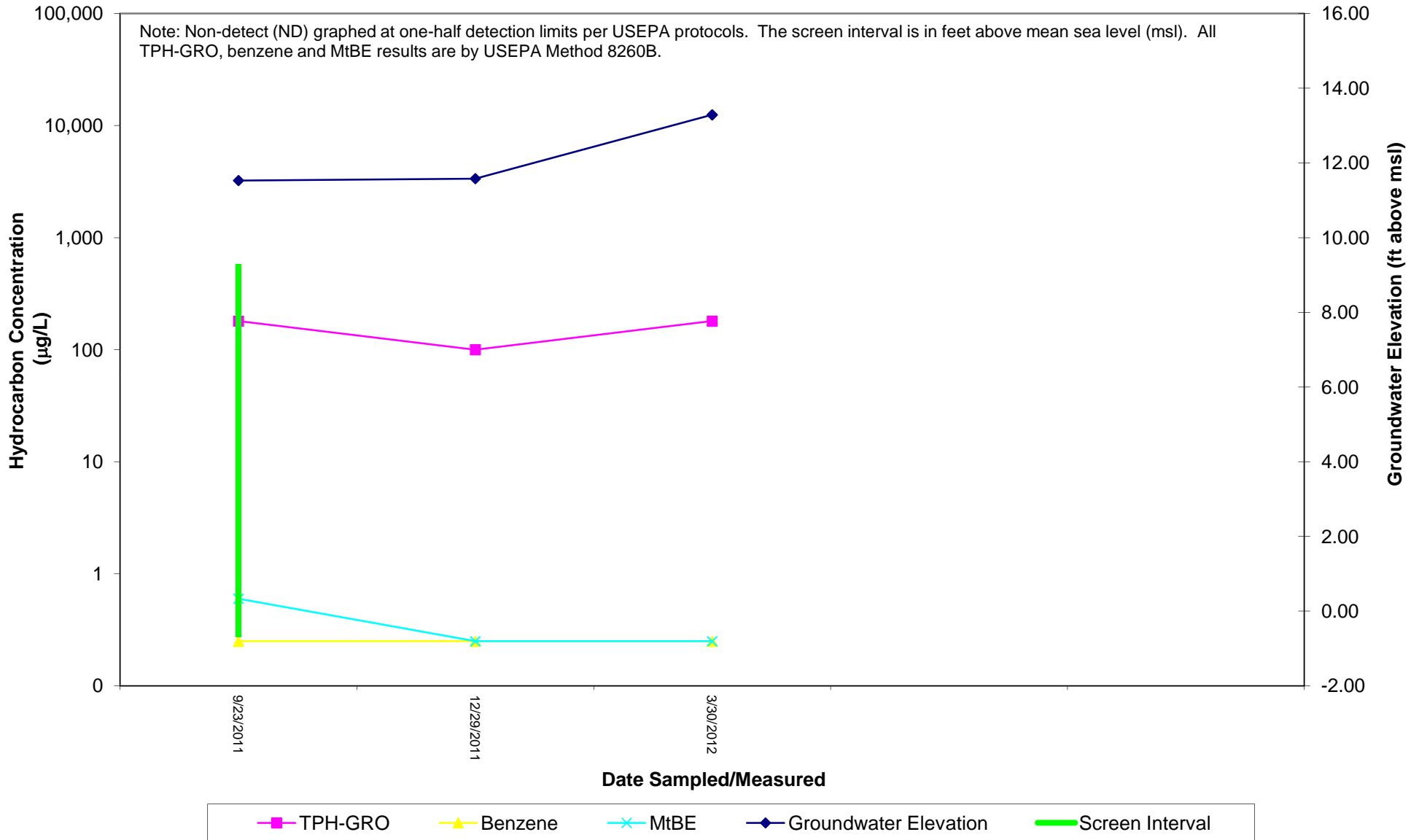
TPH = Total Petroleum Hydrocarbons

MTBE = Methyl t-Butyl Ether

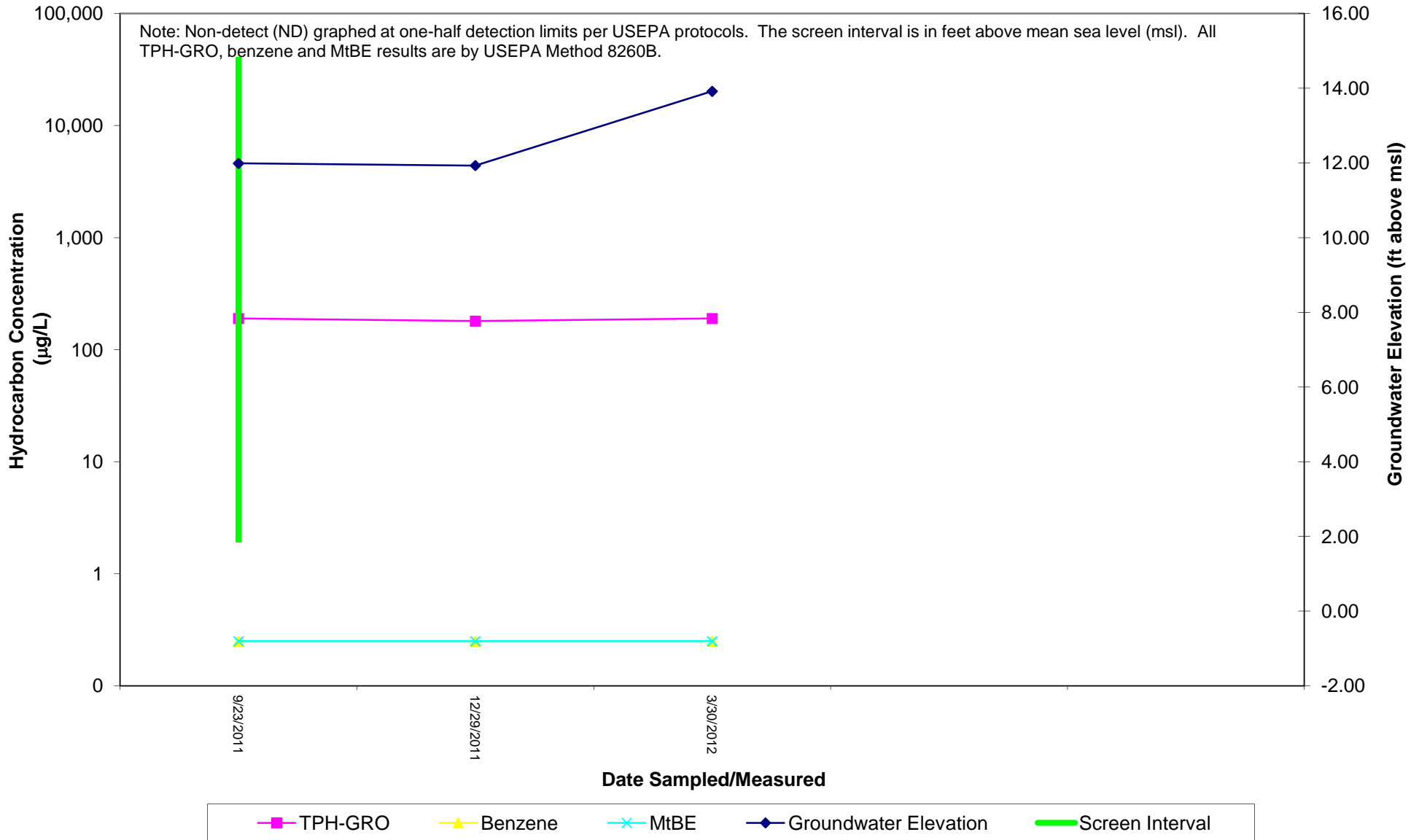
Attachment D

Hydrographs

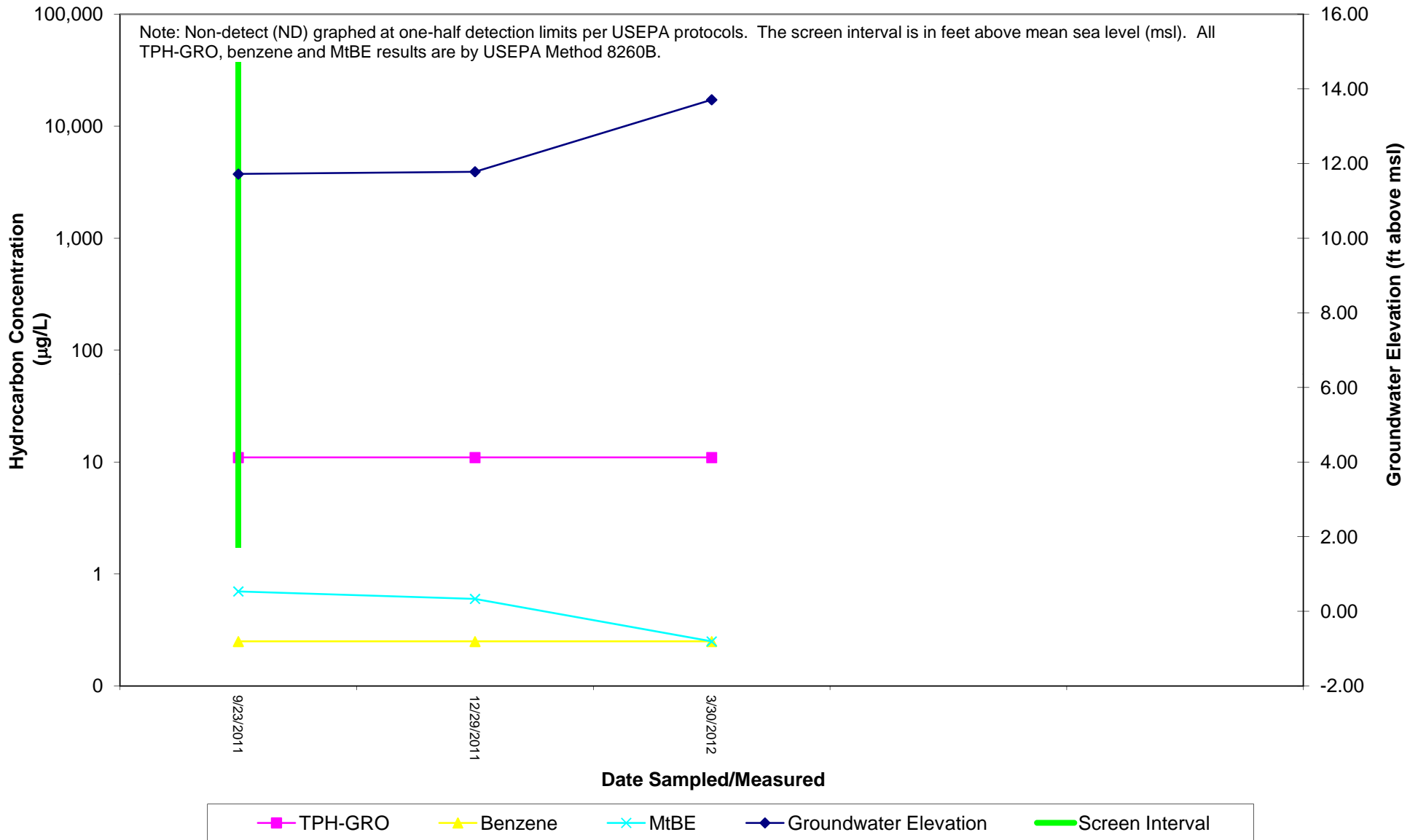
MW-2 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



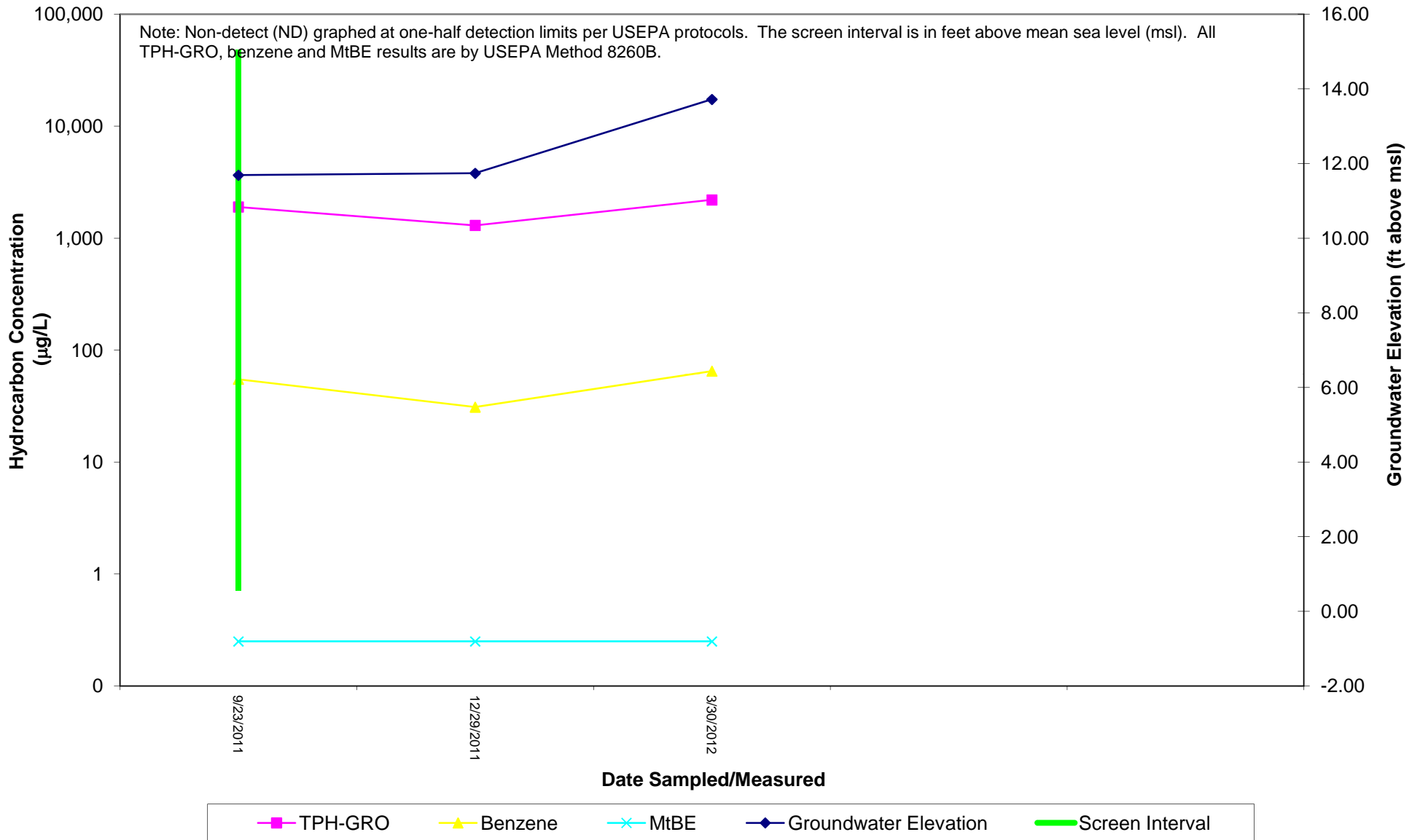
MW-5 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



MW-6 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



MW-8 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 91723
 9757 San Leandro Street
 Oakland, California



MW-9 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
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