



Stantec

**Third Quarter 2011 Quarterly
Groundwater Monitoring Report**

RECEIVED

10:18 am, Nov 17, 2011

Alameda County
Environmental Health

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

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

November 15, 2011



David Patten
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6491
drpatten@chevron.com

November 15, 2011

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

Dear Mr. Detterman:

Attached for your review is the *Third Quarter 2011 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 Corporation (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,

David E. Patten for

David Patten
Project Manager



Stantec Consulting Corporation
15575 Los Gatos Boulevard, Building C
Los Gatos, CA 95032
Tel: (408) 356-6124
Fax: (408) 356-6138

Stantec

November 15, 2011

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

RE: Third Quarter 2011 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 Corporation (Stantec) is pleased to submit the *Third Quarter 2011 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, Third Quarter 2011 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 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.

THIRD QUARTER 2011 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Blaine Tech Services, Inc. (Blaine Tech) performed the Third Quarter 2011 groundwater monitoring and sampling event on September 23, 2011. 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.

Investigation-derived waste (IDW) generated during the Third Quarter 2011 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**. Current groundwater elevation data are presented in **Table 2**. A groundwater elevation contour map (based on Third Quarter 2011 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the west at an approximate hydraulic gradient of 0.001 to 0.002 feet per foot (ft/ft). An initial Rose Diagram illustrating the direction of groundwater flow observed in Third Quarter 2011 is shown 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).

Groundwater Analytical Results

During the Third Quarter 2011 groundwater monitoring and sampling event, groundwater samples were collected from five Site wells (MW-2, MW-5, MW-6, MW-8, and MW-9). Current groundwater analytical results are included in **Table 2**. 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 all detected concentrations were below the California Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) Environmental Screening Level (ESL) of 5 micrograms per liter ($\mu\text{g/L}$).

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. Historical groundwater analytical results are included in **Attachment C**. A summary of Third Quarter 2011 groundwater analytical results follows:

- **TPH-GRO** was detected in three Site wells this quarter, at concentrations of 180 $\mu\text{g/L}$ (well MW-2), 190 $\mu\text{g/L}$ (well MW-5), and 1,900 $\mu\text{g/L}$ (well MW-8).
- **Benzene** was detected in one Site well this quarter, at a concentration of 55 $\mu\text{g/L}$ (well MW-8).
- **Toluene** was detected in one Site well this quarter, at a concentration of 2 $\mu\text{g/L}$ (well MW-8).

Stantec

Third Quarter 2011 Quarterly Groundwater Monitoring Report
Former Chevron-branded Service Station 91723
November 15, 2011
Page 3 of 5

- **Ethylbenzene** was detected in two Site wells this quarter, at concentrations of 0.6 µg/L (well MW-2) and 10 µg/L (well MW-8).
- **Total Xylenes** were detected in two Site wells this quarter, at concentrations of 0.6 µg/L (well MW-2) and 8 µg/L (well MW-8).
- **MtBE** was detected in two Site wells this quarter, at concentrations of 0.6 µg/L (well MW-2) and 0.7 µg/L (well MW-6).

CONCLUSIONS AND RECOMMENDATIONS

Concentrations of TPH-GRO and benzene were observed above ESLs as follows:

- TPH-GRO concentrations exceed the ESL of 100 µg/L in wells MW-2, MW-5, and MW-8; and
- The benzene concentration exceeds the ESL of 1 µg/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 down-gradient at well MW-2. The maximum concentration of MtBE was observed in well MW-6; however, based on the years in which the former service station operated (1946 to 1978), MtBE detections are likely unrelated to historical service station operations.

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 (through Second Quarter 2012) due to the large gap since the last groundwater monitoring and sampling event (Third Quarter 1998) at the Site. In the ACEH correspondence, it was also requested that reports be submitted to ACEH within 60 days following groundwater monitoring and sampling events.

In addition, Stantec recommends that the following analyses be added to the groundwater monitoring and sampling program beginning Fourth Quarter 2011 for evaluation of intrinsic biodegradation indicators:

- Field measurements of oxidation-reduction potential (ORP) and dissolved oxygen (DO);
- Sulfate (SO_4^{2-}) and nitrate (NO_3^-) by US EPA Method 300.0;
- Ferrous iron (Fe^{2+}) by SM20 3500 Fe B Modified;
- Methane (CH_4) by US EPA Method 8015B Modified;
- Sulfide by SM20 4500 S2 D; and
- Alkalinity by US EPA Method 310.1.

Stantec

Third Quarter 2011 Quarterly Groundwater Monitoring Report
Former Chevron-branded Service Station 91723
November 15, 2011
Page 4 of 5

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 Corporation



Travis L. Flora
Project Manager

Attachments:

Table 1 – Well Details / Screen Interval Assessment – Third Quarter 2011
Table 2 – Groundwater Monitoring Data and Analytical Results

Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map – Third Quarter 2011
Figure 3 – Rose Diagram – Third Quarter 2011
Figure 4 – Site Plan Showing Groundwater Concentrations – Third Quarter 2011
Figure 5 – TPH-GRO Isoconcentration Map – Third Quarter 2011
Figure 6 – Benzene Isoconcentration Map – Third Quarter 2011

Attachment A – Blaine Tech Services, Inc. Groundwater Monitoring Report –
Third Quarter 2011
Attachment B – Certified Laboratory Analysis Reports and Chain-of-Custody Documents
Attachment C – Historical Groundwater Analytical Results

cc:

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

Ms. Linda C. Hothem Trust, 104 Caledonia Street, Sausalito, CA 94965

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

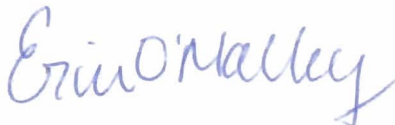
Stantec

Third Quarter 2011 Quarterly Groundwater Monitoring Report
Former Chevron-branded Service Station 91723
November 15, 2011
Page 5 of 5

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
Project Engineer

Reviewed by:



Marisa Patterson
Associate Engineer

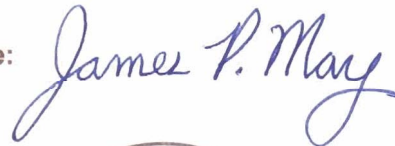
All information, conclusions, and recommendations provided by Stantec in this document regarding the Subject Property have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

Licensed Approver:

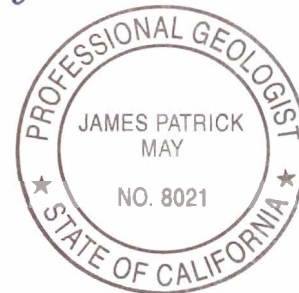
Name: James May, P.G.

Date: 15 NOV 2011

Signature:



Stamp:



Tables

Table 1
Well Details / Screen Interval Assessment
Third Quarter 2011
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	21.45	9.78	12-22	Depth-to-groundwater above screen interval.
MW-5	5/18/1988	Monitoring	2	21.84	20.00	17.68	9.85	7-20	Depth-to-groundwater within screen interval.
MW-6	5/18/1988	Monitoring	2	21.71	20.00	19.62	9.99	7-20	Depth-to-groundwater within screen interval.
MW-8	5/19/1988	Monitoring	2	21.84	20.00	18.42	10.15	7-20	Depth-to-groundwater within screen interval.
MW-9	8/4/1989	Monitoring	4	20.55	20.00	20.35	9.30	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 September 23, 2011.

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
MW-5 09/23/11	21.84	9.85	11.99	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
MW-8 09/23/11	21.84	10.15	11.69	1,900	55	2	10	8	<0.5
MW-9 09/23/11	20.55	9.30	11.25	<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

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

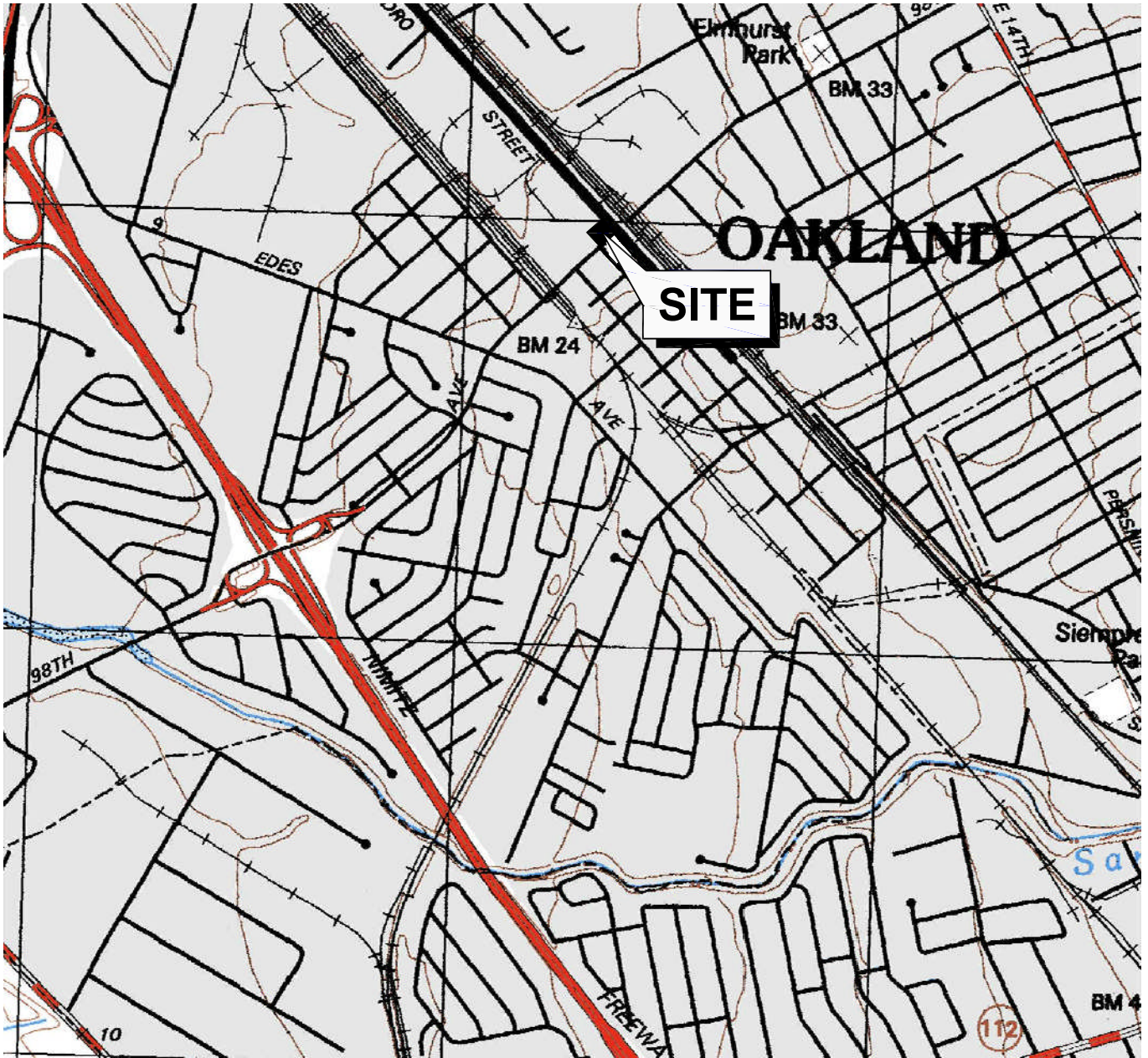
MtBE = Methyl tertiary-butyl ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

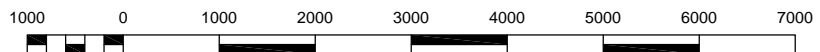
Figures



CALIFORNIA



SCALE IN MILES



SCALE IN FEET

REFERENCE: USGS QUADTRIANGLE MAP :
SAN LEANDRO, CA 1993



Stantec

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

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

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

SITE LOCATION MAP

FIGURE:

1

JOB NUMBER:

211602332

DRAWN BY:

JRO

CHECKED BY:

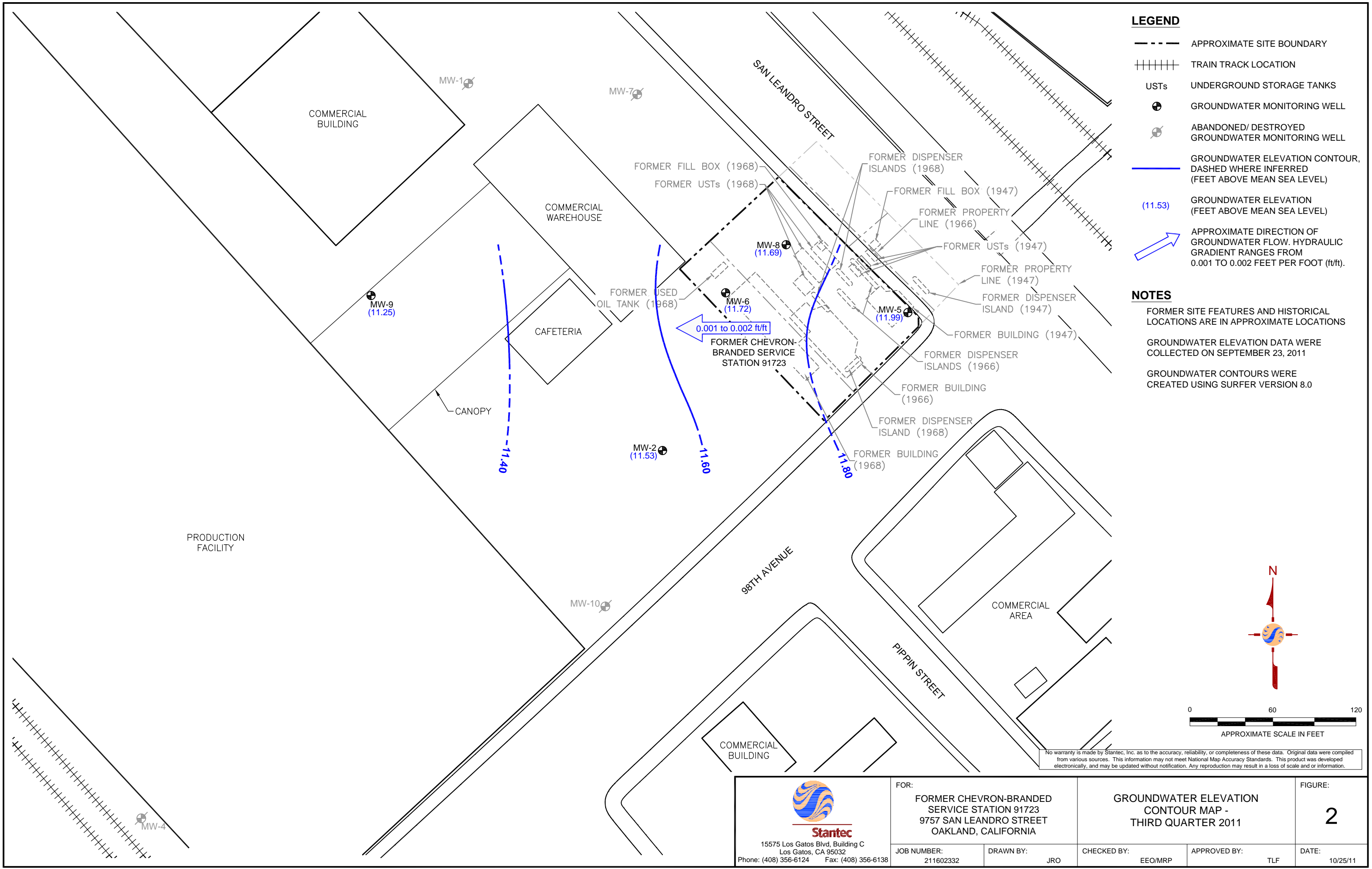
EEO/MRP

APPROVED BY:

TLF

DATE:

10/25/11

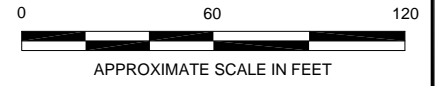
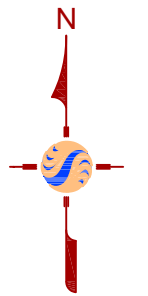


LEGEND


- APPROXIMATE SITE BOUNDARY
- ++++ TRAIN TRACK LOCATION
- USTs UNDERGROUND STORAGE TANKS
- ⊕ GROUNDWATER MONITORING WELL
- ⊕ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- (11.53) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- ➔ APPROXIMATE DIRECTION OF GROUNDWATER FLOW. HYDRAULIC GRADIENT RANGES FROM 0.001 TO 0.002 FEET PER FOOT (ft/ft).

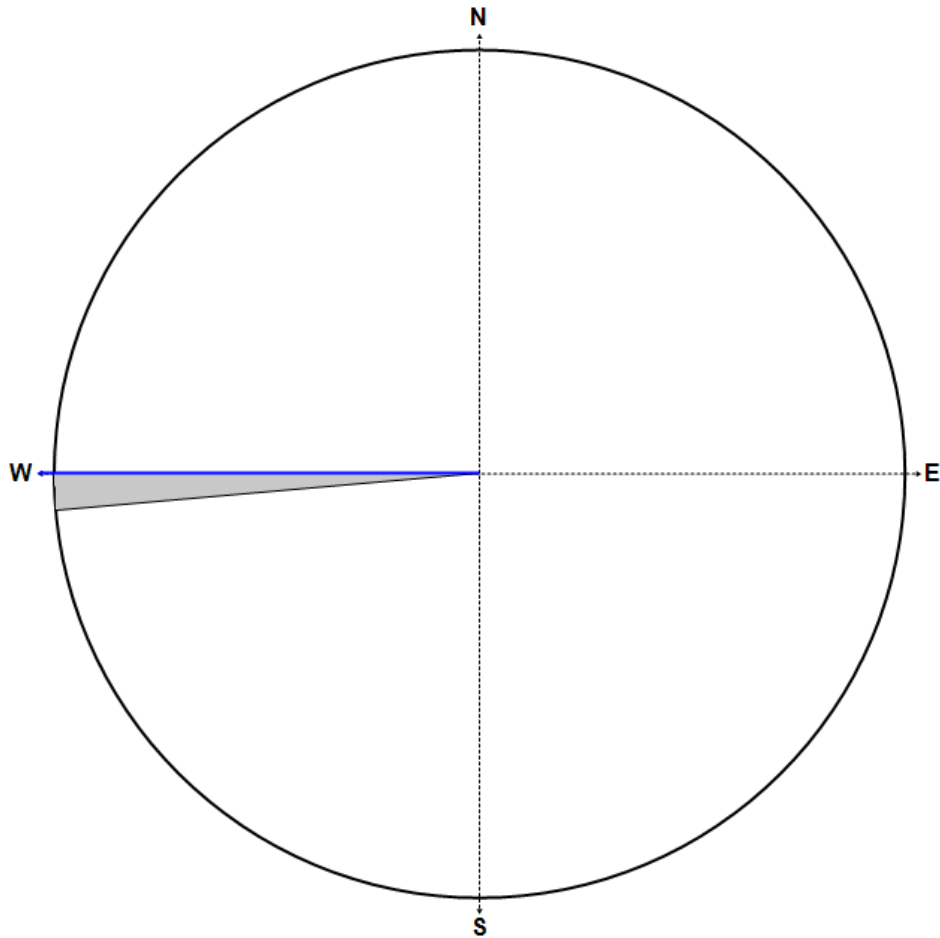
NOTES

- FORMER SITE FEATURES AND HISTORICAL LOCATIONS ARE IN APPROXIMATE LOCATIONS
- GROUNDWATER ELEVATION DATA WERE COLLECTED ON SEPTEMBER 23, 2011
- GROUNDWATER CONTOURS WERE CREATED USING SURFER VERSION 8.0



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


 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		GROUNDWATER ELEVATION CONTOUR MAP - THIRD QUARTER 2011		FIGURE: 2
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 10/25/11

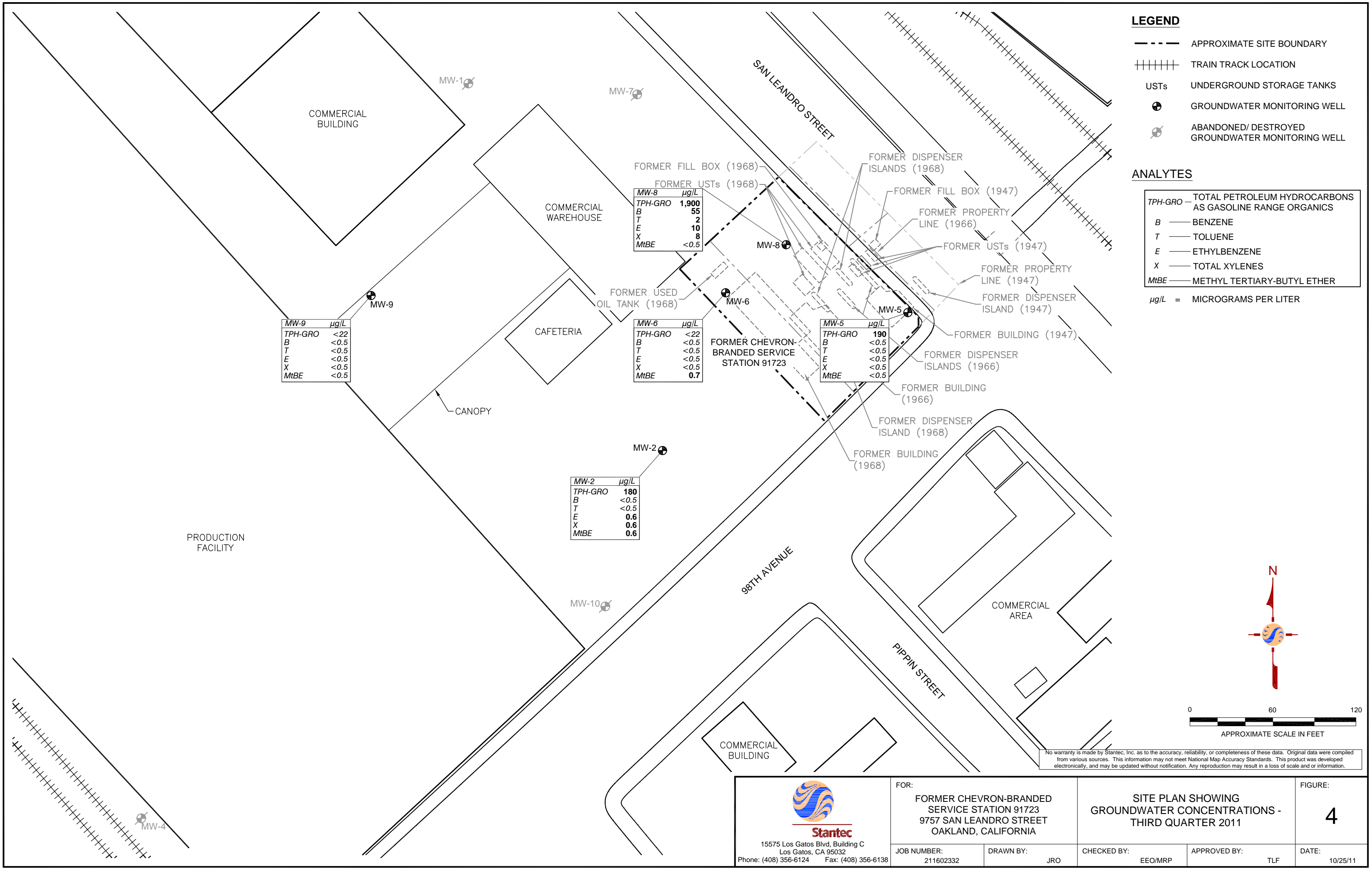


Equal Area Plot

Number of Points 1
 Class Size 5
 Vector Mean 270.00
 Vector Magnitude 1.00
 Consistency Ratio 1.00

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

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		ROSE DIAGRAM - THIRD QUARTER 2011		FIGURE: 3
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 10/25/11



LEGEND

- APPROXIMATE SITE BOUNDARY
- ++++ TRAIN TRACK LOCATION
- USTs UNDERGROUND STORAGE TANKS
- ⊕ GROUNDWATER MONITORING WELL
- ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL

ANALYTES

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

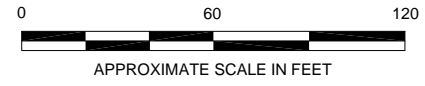
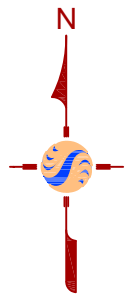
MW-9	μg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

MW-8	μg/L
TPH-GRO	1,900
B	55
T	2
E	10
X	8
MtBE	<0.5

MW-6	μg/L
TPH-GRO	<22
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	0.7

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	0.6
X	0.6
MtBE	0.6



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



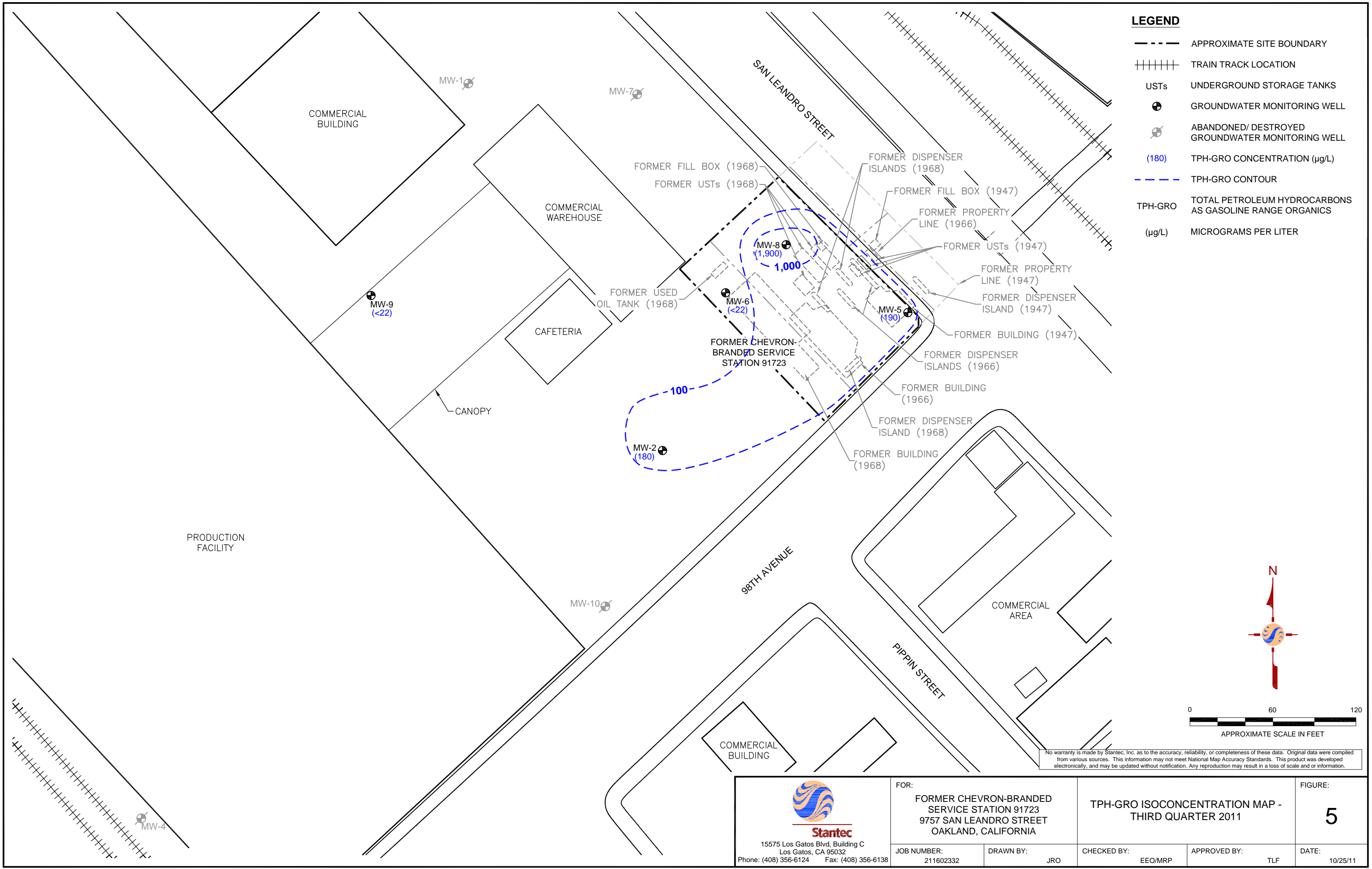
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032
Phone: (408) 356-6124 Fax: (408) 356-6138

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

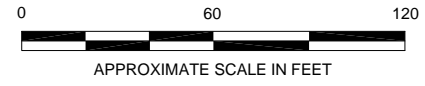
SITE PLAN SHOWING GROUNDWATER CONCENTRATIONS - THIRD QUARTER 2011

FIGURE:
4


JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 10/25/11
--------------------------	------------------	------------------------	---------------------	-------------------

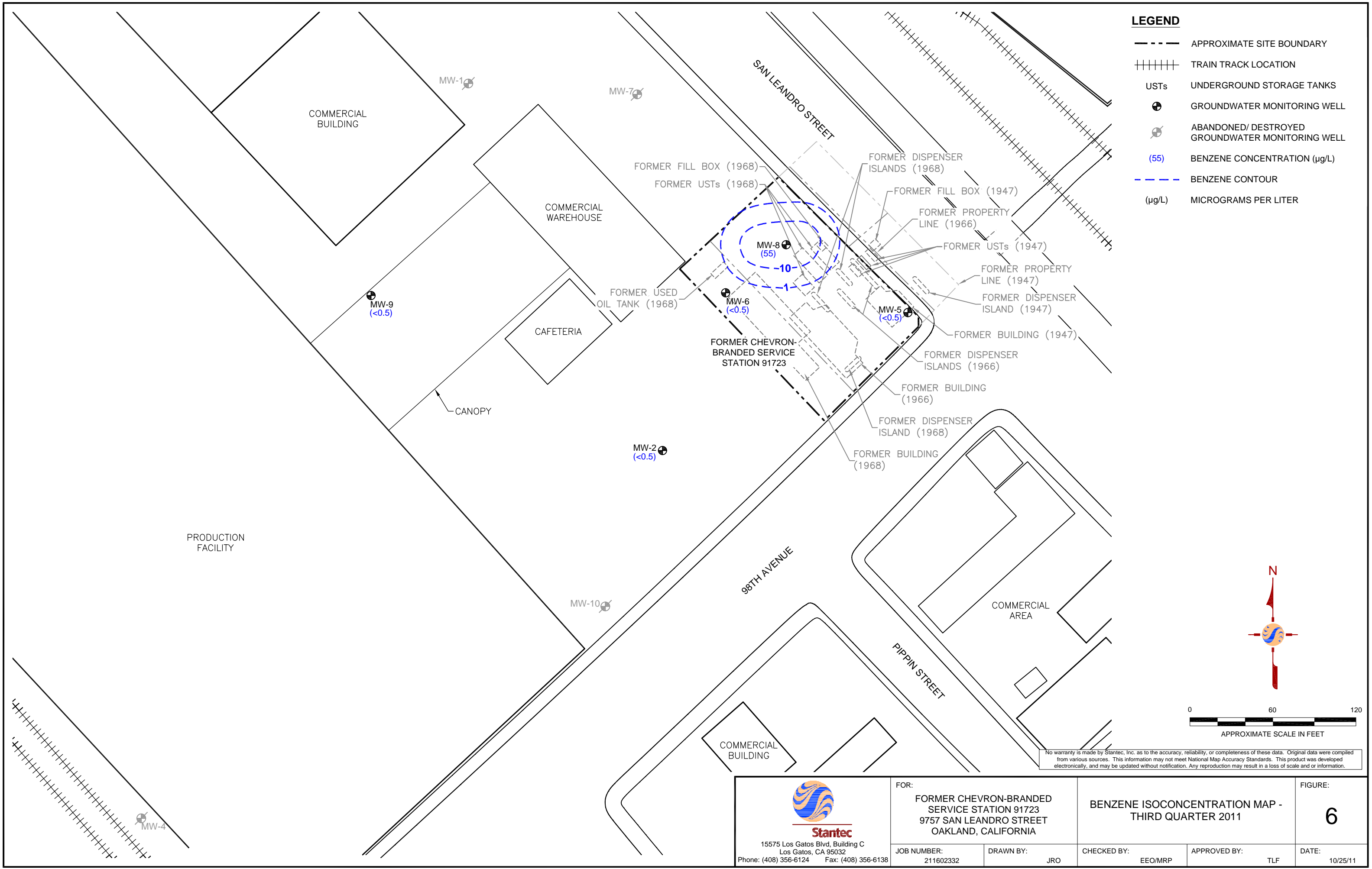


- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ TRAIN TRACK LOCATION
 - USTs UNDERGROUND STORAGE TANKS
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊕ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (180) TPH-GRO CONCENTRATION (µg/L)
 - - - - TPH-GRO CONTOUR
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)
 - MICROGRAMS PER LITER

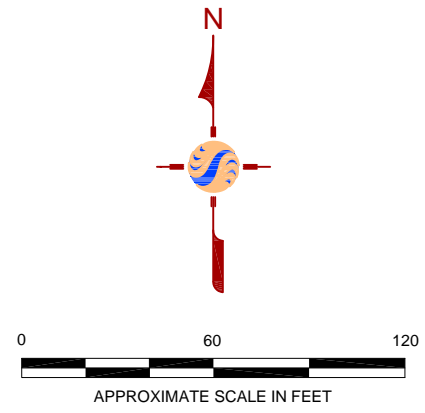


No warranty is made by Stantec, Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any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


 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		TPH-GRO ISOCONCENTRATION MAP - THIRD QUARTER 2011		FIGURE: 5
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 10/25/11



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - ++++ TRAIN TRACK LOCATION
 - USTs UNDERGROUND STORAGE TANKS
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊕ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (55) BENZENE CONCENTRATION (µg/L)
 - - - - BENZENE CONTOUR (µg/L)
 - µg/L MICROGRAMS PER LITER



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

 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		BENZENE ISOCONCENTRATION MAP - THIRD QUARTER 2011		FIGURE: 6
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO/MRP	APPROVED BY: TLF	DATE: 10/25/11

Attachment A

Blaine Tech Services, Inc. Groundwater Monitoring Report – Third Quarter 2011

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 #: <u>110923-RP2</u>	Station #: <u>9-1723</u>
Sampler: <u>Rp</u>	Date: <u>9/23/11</u>
Weather: <u>cle</u>	Ambient Air Temperature: <u>74°F</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>21.45</u>	Depth to Water: <u>9.78</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>12.11</u>	

Purge Method:	Sampling Method: <u>Bailer</u>
<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> <u>Disposable Bailer</u> <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> <u>Disposable Bailer</u> <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____

<u>1.9</u> (Gals.) X	<u>3</u>	<u>= 5.7</u> 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
<u>1121</u>	<u>69.7</u>	<u>6.90</u>	<u>879.6</u>	<u>278</u>	<u>2</u>	
<u>1124</u>	<u>69.8</u>	<u>6.72</u>	<u>883.0</u>	<u>>1000</u>	<u>4</u>	
<u>1127</u>	<u>69.3</u>	<u>6.75</u>	<u>884.5</u>	<u>>1000</u>	<u>6</u>	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 9/23/11 Sampling Time: 1130 Depth to Water: 9.80

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

Analyzed for: TPH-G BTEX MTBE OXYS Other:

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 110923-RP2	Station #: 9-1723
Sampler: RP	Date: 9/23/11
Weather: Clea	Ambient Air Temperature: 75°F
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 17.68	Depth to Water: 9.85
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]: 11.41	

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: _____

1.3	(Gals.) X	3	=	3.9	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
1207	69.0	6.88	805.6	287	1.50	
1210	68.7	6.86	800.0	500	3.0	
1213	68.5	6.84	793.1	761	4.5	

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Date: 9/23/11 Sampling Time: 1220 Depth to Water: 9.98

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

Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

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

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 110923-RF2	Station #: 9-1723
Sampler: RE	Date: 9/23/11
Weather: Clea	Ambient Air Temperature: 75°F
Well I.D.: MW-6	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 19.67	Depth to Water: 9.99
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.91	

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.
I 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
1144	70.1	6.88	900.9	71000	1.75	
1147	70.3	6.72	902.8	71000	3.50	
1150	70.2	6.71	900.7	71000	5.25	

Did well dewater? Yes No Gallons actually evacuated: 5.25

Sampling Date: 9/23/11 Sampling Time: 1155 Depth to Water: 10.00

Sample I.D.: MW-6 Laboratory: Laneaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other:

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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 110923-REZ	Station #: 9-1723
Sampler: RP	Date: 9/23/11
Weather: Clear	Ambient Air Temperature: 75°F
Well I.D.: MW-8	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 18.42	Depth to Water: 10.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>eye</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.80	

Purge Method: Bailer Waterra Disposable Bailer Peristaltic Extraction Pump Electric Submersible Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____

$$\frac{1.4 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 4.2 \text{ Gals. Calculated Volume}$$

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
1227	68.2	6.80	827.2	71000	1.5	
1229	67.8	6.75	829.6	71000	3.0	
1233	67.5	6.76	830.1	71000	4.5	

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Date: 9/23/11 Sampling Time: 1235 Depth to Water: ~~4~~ 10.20

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

Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

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

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

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

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
 CA Consultant Contact: Travis Flora
 Consultant Phone No. 408-356-6124
 Consultant Project No. 110923-RP2
 Sampling Company: Blaine Tech Services
 Sampled By (Print): Ryan Pevos
 Sampler Signature: [Signature]

ANALYSES REQUIRED											
<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"/>
EPA 8260B/GC/MS	EPA 8015B	EPA 8021B	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000 TITLE 22 METALS	EPA 150.1 PH	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	EPA 8260	EPA 8015	EPA 413.1 OIL & GREASE	Preservation Codes
TPH/GAT	GRO	BTEX									H = HCL T= Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other
											Special Instructions Must meet lowest detection limits possible for 8260 Compounds

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.
	1000	2°C
	1200	2°C
	1300	2°C

SAMPLE ID				Sample Time	# of Containers	Container Type	ANALYSES REQUIRED												Notes/Comments						
Field Point Name	Matrix	Top Depth	Date (yyymmdd)				EPA 8260B/GC/MS	EPA 8015B	EPA 8021B	EPA 6010 Ca, Fe, K, Mg, Mn, Na	EPA 6010/7000 TITLE 22 METALS	EPA 150.1 PH	SM2510B SPECIFIC CONDUCTIVITY	EPA 418.1 TRPH	EPA 8260	EPA 8015	EPA 413.1 OIL & GREASE								
MW-5	W		110923	1220	6	VOA	X																		
MW-6			110923	1155	6		X																		
MW-2			110923	1130	6		X																		
MW-8			110923	1235	6		X																		
MW-9	V		110923	1105	6		X																		
QA	T	1000	110923	1000	2		X																		

Relinquished By: <u>[Signature]</u> Company: <u>BS</u> Date/Time: <u>9/23/11 1300</u>	Relinquished To: <u>[Signature]</u> Company: <u>BS</u> Date/Time: <u>9/23/11 1300</u>	Turnaround Time: Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>
Relinquished By: <u>[Signature]</u> Company: <u>BS</u> Date/Time: <u>9/27/11 1045</u>	Relinquished To: <u>[Signature]</u> Company: <u>BS</u> Date/Time: <u>9/27/11 1045</u>	Sample Integrity: (Check by lab on arrival)
Relinquished By: _____ Company: _____ Date/Time: _____	Relinquished To: _____ Company: _____ Date/Time: _____	Intact: _____ On Ice: _____ Temp: _____ COC # _____

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

October 17, 2011

Project: 91723

Submittal Date: 09/29/2011
Group Number: 1269074
PO Number: 0015087639
Release Number: HORNE
State of Sample Origin: CAClient Sample DescriptionMW-5-W-110923 NA Water
MW-6-W-110923 NA Water
MW-2-W-110923 NA Water
MW-8-W-110923 NA Water
MW-9-W-110923 NA Water
QA-T-110923 NA WaterLancaster Labs (LLI) #6423696
6423697
6423698
6423699
6423700
6423701

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

ELECTRONIC Stantec
COPY TO
ELECTRONIC Stantec
COPY TO

Attn: Laura Viesselman

Attn: Travis Flora

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-5-W-110923 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 MW-5

LLI Sample # WW 6423696
LLI Group # 1269074
Account # 10869

Project Name: 91723

Collected: 09/23/2011 12:20 by RP

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 09/29/2011 22:45

Reported: 10/17/2011 17:30

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

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	Z112792AA	10/06/2011 13:02	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z112792AA	10/06/2011 13:02	Daniel H Heller	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-6-W-110923 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 MW-6

LLI Sample # WW 6423697
LLI Group # 1269074
Account # 10869

Project Name: 91723

Collected: 09/23/2011 11:55 by RP

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 09/29/2011 22:45

Reported: 10/17/2011 17:30

SLO06

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	0.7	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	Z112792AA	10/06/2011 14:14	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z112792AA	10/06/2011 14:14	Daniel H Heller	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-2-W-110923 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 MW-2

LLI Sample # WW 6423698
LLI Group # 1269074
Account # 10869

Project Name: 91723

Collected: 09/23/2011 11:30 by RP

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 09/29/2011 22:45

Reported: 10/17/2011 17:30

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	0.6	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.6	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	0.6	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	Z112792AA	10/06/2011 14:38	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z112792AA	10/06/2011 14:38	Daniel H Heller	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-8-W-110923 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 MW-8

LLI Sample # WW 6423699
LLI Group # 1269074
Account # 10869

Project Name: 91723

Collected: 09/23/2011 12:35 by RP

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 09/29/2011 22:45

Reported: 10/17/2011 17:30

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	ug/l	
10945	Benzene	71-43-2	55	0.5	1
10945	C6-C12-TPH-GRO	n.a.	1,900	22	1
10945	Ethylbenzene	100-41-4	10	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	2	0.5	1
10945	Xylene (Total)	1330-20-7	8	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	Z112792AA	10/06/2011 15:03	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z112792AA	10/06/2011 15:03	Daniel H Heller	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: MW-9-W-110923 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 MW-9

LLI Sample # WW 6423700
LLI Group # 1269074
Account # 10869

Project Name: 91723

Collected: 09/23/2011 11:05 by RP

ChevronTexaco

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 09/29/2011 22:45

Reported: 10/17/2011 17:30

SLO09

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	Z112792AA	10/06/2011 15:26	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z112792AA	10/06/2011 15:26	Daniel H Heller	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: QA-T-110923 NA Water
Facility# 91723 BTST
9757 San Leandro-Oakland T0600101789 QA

LLI Sample # WW 6423701
LLI Group # 1269074
Account # 10869

Project Name: 91723

Collected: 09/23/2011 10:00

ChevronTexaco

Submitted: 09/29/2011 22:45

6001 Bollinger Canyon Rd L4310

Reported: 10/17/2011 17:30

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	Z112792AA	10/06/2011 15:50	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z112792AA	10/06/2011 15:50	Daniel H Heller	1

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 10/17/11 at 05:30 PM

Group Number: 1269074

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: Z112792AA	Sample number(s): 6423696-6423701							
Benzene	N.D.	0.5	ug/l	99		79-120		
C6-C12-TPH-GRO	N.D.	22.	ug/l	136	142	68-166	4	30
Ethylbenzene	N.D.	0.5	ug/l	106		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		76-120		
Toluene	N.D.	0.5	ug/l	99		79-120		
Xylene (Total)	N.D.	0.5	ug/l	105		80-120		

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: Z112792AA	Sample number(s): 6423696-6423701 UNSPK: 6423696								
Benzene	101	110	80-126	9	30				
Ethylbenzene	107	116	71-134	8	30				
Methyl Tertiary Butyl Ether	90	99	72-126	10	30				
Toluene	101	110	80-125	9	30				
Xylene (Total)	106	115	79-125	8	30				

Surrogate Quality Control

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

Analysis Name: UST VOCs + GRO by 8260B-Water
 Batch number: Z112792AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6423696	106	96	103	95
6423697	106	100	101	96
6423698	103	99	100	99
6423699	103	95	100	101
6423700	107	99	101	98
6423701	107	100	100	94
Blank	106	99	100	96
LCS	105	101	101	102

*- 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: 10/17/11 at 05:30 PM

Group Number: 1269074

Surrogate Quality Control

MS	101	97	102	101
MSD	102	101	103	101
Limits:	80-116	77-113	80-113	78-113

*- 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.

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)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	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		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
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.		

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.

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

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