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PROJECT NAME: 2165 O'Toole Avenue, San Jose

TO: Alyx Karpowicz
California Regional Water Quality Control Board
San Francisco Bay Region
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REVISED FEASIBILITY STUDY AND CORRECTIVE ACTION PLAN

SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE
SAN JOSE, CALIFORNIA

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EXECUTIVE SUMMARY

Excavation, soil vapor extraction (SVE), and groundwater extraction (GWE) have been implemented at this site successfully. SVE and GWE systems were operated until reaching their respective cost-effective limits.

CRA evaluated five remediation technologies for the site:

- GWE;
- Sulfate injection;
- Air injection system;
- Ozone injection; and
- Monitored natural attenuation (MNA).

Our evaluation shows that the chemical plumes are adequately stable, and no sensitive receptors are at risk. Our evaluation further determined that MNA is the preferred remedial option and is adequately protective of the environment. Therefore, CRA recommends implementing MNA. CRA also recommends collecting bioparameters for one hydrologic cycle to assess the subsurface biological conditions.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this *Revised Feasibility Study and Corrective Action Plan* (FS/CAP) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) as requested in San Francisco Bay Regional Water Quality Control Board's (RWQCB's) April 26, 2012 electronic correspondence. This FS/CAP supersedes CRA's March 29, 2012 *Revised Feasibility Study and Corrective Action Plan*.

The site is an operating petroleum product distribution terminal situated in an industrial and commercial area on the northeastern side of Coyote Creek in San Jose, California (Figure 1). Site operations began in the mid-1960s. Site features include four aboveground storage tanks (ASTs) containing fuel, three additive ASTs, a below-grade 4,000-gallon transmix tank, an underground storage tank (UST) containing diesel, a dispenser island, a four-lane fuel loading rack, three wastewater ASTs, and several buildings (Figure 2).

A summary of previous work performed at the site and additional background information is contained in Appendix A.

2.0 SITE BACKGROUND

2.1 HISTORICAL SITE USE

The terminal began operation in the mid-1960s. The surrounding area is primarily of commercial and industrial use.

2.2 PRODUCT RELEASES AND SOURCE AREAS

Between 1972 and 1992, eight on-site releases were documented. The releases were generally located in four areas: (1) within the Tank Farm near well MW-4, (2) between Tanks 320 and 260, (3) the vapor recovery unit (near well MW-10), and (4) the transmix tank.

2.3 SITE GEOLOGY AND HYDROGEOLOGY

2.3.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

According to the California Department of Water Resources' Bulletin 118, the site is located within the Santa Clara Subbasin (basin number 2-9.02) of the Santa Clara Valley Groundwater Basin. The water-bearing formations of the Santa Clara Subbasin consist of Pliocene to Holocene age continental deposits unconsolidated and semi-consolidated gravel, sand, silt, and clay. The Santa Clara Valley Water District's (SCVWD's) *Santa Clara Valley Groundwater Management Plan* (July 2001) states this portion of the Santa Clara Subbasin is underlain by an extensive clay aquitard at a depth of approximately 100 feet below grade (fbg) which is 20 to 100 feet thick.

Throughout most of the Santa Clara Subbasin, water level contours show that the direction of groundwater flow is from south to north toward San Francisco Bay. Groundwater flow direction generally correlates to topography. The site elevation is approximately 40 feet above mean sea level. The nearest natural drainage is Coyote Creek, located directly to the southwest.

2.3.2 SOIL TYPES

The site is located within the Santa Clara Valley in Santa Clara County, approximately 3.5 miles west of the Hayward Fault. Soils consist of silt, sandy silt, clayey silt, silty clay, sandy clay, and clay to the total depth explored of 30.4 fbg, with clay content generally increasing with depth. Available cross-sections and exploratory boring logs are included in Appendix B. The locations of the wells and soil borings are shown on Figure 2.

2.3.3 GROUNDWATER DEPTH AND FLOW DIRECTION

The depth to groundwater at the site has historically been measured as shallow as 9.7 fbg and as deep as 23.1 fbg, but typically is found ranging between 13 to 18 fbg.

A groundwater contour map for the fourth quarter 2011 groundwater monitoring event is included as Figure 3. Based on groundwater monitoring, the local groundwater flow direction is predominantly northwest.

2.3.4 GROUNDWATER QUALITY ASSESSMENT

According to the California State Water Resources Control Board's (State Water Board's) Geotracker website file for the subject site and the environmental case at the adjacent Conway Western Express, Inc. site, the groundwater that is potentially affected is categorized as "Other Groundwater (Uses Other than Drinking Water)."

The *San Francisco Bay Basin (Region 2) Water Quality Control Plan* (Basin Plan) states that groundwater is to be considered potentially suitable for municipal or domestic water supply with several exceptions per State Water Board Resolution No. 88-63 (as revised by Resolution No. 2006-0008) and RWQCB Resolution No. 89-39. As discussed below, site conditions warrant exclusion from the Basin Plan's municipal beneficial use designation.

SCVWD's June 2011 *2010 Groundwater Quality Report* states that "the Santa Clara Subbasin . . . [has] significant confining layers" and that "the Santa Clara Plain . . . [is] further divided into shallow and deep aquifer zones." SCVWD's July 2001 *Groundwater Management Plan* states, "The alluvial fill deposits of the Santa Clara Valley Subbasin in the flat baylands area consist of thin aquifers amongst abundant clays. The aquifers are broadly grouped into two water-bearing zones referred to as the 'upper aquifer zone,' which usually occurs at depths less than 100 feet, and the 'lower aquifer zone,' which usually occurs at depths greater than 150 to 250 feet, and which constitutes the potable aquifer system. Previous studies indicate the upper aquifer zone fringing San Francisco Bay is widely intruded by saltwater." This plan also states, "Comparison of older mineral analyses of groundwater from wells in the San Francisco bayfront area in Santa Clara and Alameda counties, some dating back to 1907, with more recent data shows that saltwater intrusion has occurred in the upper aquifer. With much higher water demands after World War II and the occurrence of land subsidence, saltwater intrusion conditions became aggravated and encompassed a portion of the baylands (the area adjacent to the southern San Francisco Bay). Bayshore Freeway (U.S. Route 101) and the Nimitz Freeway (Interstate 880) delineate the southern limits of this area."

SCVWD's July 2001 *Groundwater Management Plan* also states, "High mineral salt concentrations have been identified in the upper aquifer zone along San Francisco Bay…" and indicates that manganese concentrations in the Upper Aquifer Zone of the Santa Clara Subbasin range from 120 to 769 micrograms per liter (μg/L), which exceeds the Secondary Maximum Contaminant Level (SMCL) for drinking water of 50 μg/L.

In addition, final conductivity measurements collected prior to sampling site wells in fourth quarter 2011 ranged from 517.4 to 2,312 microsiemens (μS). All conductance

measurements except one exceeded California Department of Public Health's recommended SMCL of 900 µS. The average conductivity measurement from site wells was 1,685 µS, which exceeds CDPH's upper limit SMCL of 1,600 µS.

Due to this existing natural contamination, site groundwater is not suitable for drinking water. Per the Basin Plan, if "there is contamination, either by natural processes or by human activity (unrelated to a specific pollution incident), that cannot reasonably be treated for domestic use using either Best Management Practices (BMPs) or best economically achievable treatment practices" groundwater can be excluded from a municipal water supply beneficial use designation.

Given the above, it is not likely that the shallow groundwater impacted by the subject site will be used for potable water now or in the foreseeable future. Further, site groundwater meets one of the criteria for exclusion from existing or potential municipal or domestic water supply beneficial use designation listed in the Basin Plan.

2.4 RISK EXPOSURE PATHWAY ANALYSIS

Possible complete exposure pathways at the site are direct exposure to impacted soil by site workers, ingestion of impacted groundwater, groundwater discharge to surface water affecting aquatic receptors, and vapor intrusion from soil or groundwater. These are discussed in detail below.

2.4.1 SOIL

Based on the investigations and excavations performed to date, some shallow (2 fbg) soil contamination remains near the additive tanks located south of Tank 60. In addition, vadose-zone soil contamination from 2 to 12 fbg remains at concentrations exceeding non-drinking water RWQCB environmental screening levels (ESLs) in the area of (1) the additive tanks located south of Tank 60, (2) the former spill area from the additive tank north of Tank 320 and Tank 800, 3) between the vapor recovery tank and the Truck pump off slab, and (4) the transmix UST. There is a potential for workers to come into contact with total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes concentrations which exceed ESLs for shallow soils where groundwater is not a source

of drinking water for commercial and/or industrial land use (Table B).[1] Construction workers are required to obtain specific permits prior to conducting work in the bermed tank area. Construction workers entering these areas are trained in safety practices specifically designed to avoid exposure to soil contamination. Construction workers could also potentially contact deeper soil. As with shallow soils, construction workers in these areas would be required to obtain permits and would be trained in safety practices which are specifically designed to avoid exposure to soil contamination. Available soil results are presented in Appendix C.

2.4.2 GROUNDWATER

First-encountered groundwater is too deep for a surface exposure pathway to be complete. Groundwater reaching down-gradient water-production wells is not a likely completed pathway given the information discussed below.

CRA conducted a search of available records for wells within 3,280 feet of the site. An Environmental Data Resources, Inc. (EDR) Radius Map report with GeoCheck® did not identify any water supply wells within 3,280 feet of the site. Five wells were identified outside the survey area. Due to the size of the EDR report, it is not included herein. CRA will provide a copy of the EDR report to the RWQCB upon request.

CRA requested water well records from the SCVWD and found records for two up-gradient and two down-gradient active water-supply wells and three "standby" water- supply wells within 3,280 feet of the site. These records are contained within CRA's files and are not part of this report. We provided them to the RWQCB electronically on August 13, 2010. The approximate well locations are depicted on Figure 1. The locations of the two down-gradient wells in the SCVWD database were verified during a field visit conducted in April 2009. As shown on Figure 1, an irrigation well (Well 8) is located approximately 1,700 feet northwest of the site, and a domestic well (Well 6) is located approximately 1,500 feet northwest of the site. The two down-gradient wells are privately owned. Available well information is presented in Table 1.

CRA also requested well completion records from the California Department of Water Resources (DWR) and found record of 12 water supply wells within 3,280 feet of the site. As shown in Table 1, one down-gradient domestic well (Well 5) and three

[1] Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]

down-gradient irrigation wells (Wells 4, 11, and 12) were identified in DWR records but not in SCVWD records. During our field visit in April 2009, CRA verified that Well 11 is an inactive irrigation well. The status of other wells identified in the DWR records is not known. The well completion records are confidential and are not presented in this report. We will provide them to the RWQCB upon request.

Based on groundwater monitoring, the local groundwater flow direction is predominantly northwest. The depth to groundwater historically ranges from approximately 10 to 23 fbg. Average hydraulic gradients range from 0.005 to 0.01. Based on these hydrogeologic conditions, the absence of, or very low, petroleum constituent concentrations detected in the perimeter monitoring wells, and the distance of the wells from the site, it is unlikely that the site groundwater plume could impact the water-supply wells.

As described above, communications with SCVWD staff have indicated that water-producing wells near this area are screened in the confined aquifer below an extensive clay aquitard, and that shallow groundwater is not generally used for drinking water.

Therefore, shallow groundwater in the vicinity of the terminal is not considered an existing or potential source of drinking water. Available groundwater sampling data are presented in Table 2.

2.4.3 POTENTIAL VAPOR RECEPTORS

During the field visit conducted during April 2009, CRA did not observe any evidence of buildings with basements or cellars within 328 feet of the site. CRA reviewed the EDR report and conducted an internet search to identify hospitals, educational facilities, residential care facilities, and child care facilities within 328 feet of the site. None were identified within the search radius; these findings were verified during the field visit. A residence is located 50 feet northwest of the subject site. Soil data from well borings MW-12 and MW-25, located nearest to the adjacent residence, indicate that there are likely no petroleum hydrocarbon or fuel oxygenate soil impacts which would affect the residence. Current groundwater data from these wells indicate that no petroleum hydrocarbons or fuel oxygenates were detected in this area, with the exception of 6.9 μg/L methyl tertiary-butyl ether (MTBE) in well MW-25. This concentration is below the ESL for the evaluating potential soil vapor intrusion concerns (24,000 μg/L MTBE from Table E-1 of the ESL document). Therefore, vapor intrusion is considered an incomplete pathway.

2.4.4 SURFACE WATER BODIES

Coyote Creek is located along the site's western property boundary and is listed in the US Fish and Wildlife Service National Wetlands Inventory Mapper (Figure 1). No other surface water bodies were identified within 3,280 feet of the site. The site is within the 500-year flood zone as identified through the EDR report. Based on communications with SCVWD staff, Coyote Creek is not a source of drinking water. Current groundwater data from wells MW-1 and MW-13, located nearest the creek, indicate that no petroleum hydrocarbons or fuel oxygenates were detected in this area, with the exception of 2.8 µg/L MTBE in well MW-1 and 13 µg/L MTBE in well MW-13. These detections are below the fresh water aquatic habitat goal of 66,000 µg/L MTBE presented in the ESL document (Table F-4a). Based on data from these nearby monitoring wells, Coyote Creek is not likely to be impacted by constituents of concern (COCs) originating from the site at concentrations above ESLs.

2.4.5 SENSITIVE HABITATS

The west bank of the Coyote Creek is within 3,280 feet of the site and is identified as a wetlands habitat. As stated above, Coyote Creek is not likely to be impacted by COCs originating from the site with concentrations above ESLs to protect fresh water aquatic habitats.

3.0 REMEDIATION HISTORY

Appendix D presents available data tables detailing the performance of soil vapor extraction (SVE) and groundwater extraction (GWE) remediation system operations.

3.1 1993 SVE TEST

During June 1993, Pacific Environmental Group, Inc. (PEG) performed an SVE test using well MW-4, located within the Tank Farm, and well MW-10, located near the vapor recovery unit. The SVE test results indicated that this technology was suitable for remediating impacted soils. PEG's September 30, 1993 *Site Cleanup Requirements, RWQCB Order No. 93-038, Provision C.4, Technical Report – Proposed Remedial Alternatives* summarizes the SVE test results.

3.2 1995 TO 1999 SVE SYSTEM OPERATION

During October 1995, PEG installed five SVE wells (SV-1 through SV-5). The vapor wells targeted remediation of unsaturated soils near the vapor recovery unit, the transmix tank, the former PIBA tank, between Tanks 320 and 260, and near well MW-4. The SVE system was also connected to wells MW-4 and MW-10, which historically have contained the highest petroleum constituent concentrations. Operations began in December 1995 and continued periodically through January 1999. The SVE system removed approximately 986.6 pounds of TPHg and 15.34 pounds of benzene. IT Group's (IT's) April 16, 1999 *Semiannual Report – First Half of 1999, Annual Report 1998* summarizes the SVE system operations.

The mass removal rates for TPHg and benzene were 0.3 and 0.002 pound per day, respectively, at shut down. These mass removal levels were consistent for the final four months of operation. The SVE data suggest that the vadose zone was remediated where targeted, and a comparison of historical soil data with soil data from CRA's 2010 source area investigation do not indicate a significant residual soil source. This is supported by the COC trends. Therefore, SVE would not be an appropriate technology for the remaining dissolved-phase impacts and is not evaluated in this FS/CAP.

3.3 1998 UST REMOVAL AND EXCAVATION

In April 1998, Cambria Environmental Technology, Inc. (Cambria) observed the removal of a 12,000-gallon diesel UST, piping, and dispensers. Following receipt of initial soil sample results, approximately 200 cubic yards of soil were excavated from the dispenser area to remove soils with TPHd concentrations higher than 1,000 milligrams per kilogram (mg/kg). The final excavation dimensions were 28 feet long by 19 feet wide, and the final depth was approximately 12 fbg. Details of the UST removal and excavation are presented in Cambria's June 26, 1998 *UST Removal Report.*

3.4 1999-2008 GWE REMEDIATION

Beginning in September 1999, temporary GWE was initiated from wells MW-8 and MW-10, located near the vapor recovery unit. Initially, GWE was performed using a vacuum truck. During 2000, pumps were installed in well MW-11. The water was pumped to an AST for storage prior to being hauled to Shell's Martinez Refinery for

treatment and disposal. In June 2003, well MW-19, located on the Conway property, was added to the GWE system, and in January 2006, well MW-15, located down gradient of the vapor recovery tank area, was converted to a GWE well. In 2007 and 2008 the extracted groundwater was treated and discharged to the storm drain under a National Pollutant Discharge Elimination System (NPDES) discharge permit. In total, approximately 5,252,766 gallons of groundwater were extracted that contained an estimated 796.4 pounds of TPHg, 13.8 pounds of benzene, and 790.4 pounds of MTBE.

The GWE system was shut down during the fourth quarter of 2008 because:

- MTBE mass removal rates remained low regardless of optimization efforts;
- TBA concentration trends indicated residual MTBE was remediating more effectively by natural attenuation processes rather than GWE;
- Residual MTBE is attenuating, migration is limited and not threatening any receptors;
- GWE for TPHg and BTEX is neither effective (by characteristic) nor warranted (by a risk to a receptor via migration); and
- Continued operation of the GWE system was cost-prohibitive since it had reached its effective limit and given the stringent discharge requirements of the NPDES discharge permit.

3.5 1999 ADDITIVE AST AREA EXCAVATION

During September 1999, a routine inspection identified impacted soil in the vicinity of the two additive ASTs. The area around the ASTs was excavated to a maximum depth of approximately 6 fbg to remove the impacted soil. Toxichem Management Systems, Inc. (Toxichem) collected soil samples from the limits of the excavation. Based on these results, the area was over-excavated. Details of the excavation are provided in Toxichem's March 20, 2000 *Annual Report – Fourth Quarter 2009 including First Quarter 2000 Monitoring Results and Various Investigations*.

3.6 2001 SOIL EXCAVATION

During October 2001, an additives release occurred within the Tank Farm near Tanks 260, 320, and 800. Soil was excavated, and Toxichem collected ten soil samples (EX-1 through EX-10) from the limits of the excavation. Based on the initial soil sample results, additional excavation was conducted in the area of EX-4, and Toxichem collected an additional soil sample (EX-4B). Approximately 250 cubic yards of soil were excavated to depths ranging from approximately 0.5 to 3 fbg. Results of this

investigation are presented in Toxichem's July 8, 2002 *Annual Summary Report – Including Fourth Quarter 2001 through Second Quarter 2002 Monitoring Results*.

3.7 2002 WELL PUMP TEST

On July 2, 2002, a constant rate discharge test was performed using well MW-10 (Toxichem, April 7, 2003). The average pumping rate during the test was 1.4 gallons per minute (gpm) over approximately 2.8 days. The estimated horizontal capture radius was 80 feet perpendicular to the groundwater flow direction with a down-gradient capture extent of 70 feet.

3.8 2009 WELL PUMP TESTS

During December 2009, CRA conducted step discharge testing of wells MW-10 and MW-15 to estimate the aquifer yield, constant rate testing of well MW-19 to evaluate the extent of groundwater drawdown and hydraulic capture zone, and constant rate testing of well MW-10 to estimate aquifer hydraulic conductivity and transmissivity. These tests were also conducted to evaluate if the aquifer was limiting the extraction rate of the GWE system. The aquifer pump test data indicated that yields from the aquifer in the vicinity of wells MW-10, MW-15, and MW-19 are approximately 4.0 gpm, 1.2 gpm, and 0.5 gpm, respectively. This variable yield from different locations on site indicates that heterogeneities in the subsurface exist and results cannot be extrapolated to other areas on site with confidence. The test results showed that the aquifer was limiting extraction except at well MW-10. Although the groundwater yield from MW-10 was higher than the other wells, the estimated MTBE mass removal rate (0.058 pounds per day) using the maximum yield from MW-10 is still considered low, supporting GWE shutdown. Natural attenuation, as supported by MTBE and TBA concentration trends, is considered a more effective remedial approach. CRA's March 26, 2010 *Aquifer Pump Test Report* presents pumping test details.

4.0 DISTRIBUTION OF COCs

4.1 HYDROCARBON DISTRIBUTION IN SOIL

Hydrocarbons in shallow (2 fbg) soils are primarily located near the additive tanks south of Tank 60. Xylenes and TPHd concentrations exceed ESLs for shallow soils where groundwater is not a source of drinking water (Table B of the ESL document).

Vadose-zone soil contamination from 2 to 12 fbg remains at concentrations exceeding non-drinking water ESLs in the area of (1) the additive tanks located south of Tank 60, (2) the former spill area from the additive tank north of Tank 320 and Tank 800, (3) between the vapor recovery tank and the Truck pump off slab, and (4) the transmix UST. Historical soil analytical data and soil sampling locations are presented in Appendix C.

4.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Currently, there are 25 monitoring wells located both on site and off site. Groundwater has been monitored on site since February 1988. Historical groundwater data is presented in Table 2. Separate-phase hydrocarbons (SPHs) have historically been measured in well MW-10 with the most recent SPH detection during July 2005 (0.04 feet). Well MW-4 also contained a trace amount of SPHs during April 1990. During the third quarter of 2011, wells contained up to 15,000 μg/L TPHd, 11,000 μg/L TPHg, 1,400 μg/L benzene, 4,000 μg/L MTBE, and 120,000 μg/L tertiary-butyl alcohol (TBA). Current concentrations in perimeter wells are shown in the following table.

TABLE A				
Well ID	*Constituent of Concern*	*Concentration (µg/L)*	*RWQCB Non-Drinking Water ESL (µg/L)*	*Time to Reach Non-Drinking Water ESL (Years)*
MW-1 *(7/21/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	2.8	1,800	Achieved
	TBA	<10	18,000	Achieved
MW-7 *(7/21/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	1.4	1,800	Achieved
	TBA	<10	18,000	Achieved
MW-9 *(7/21/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	<1.0	1,800	Achieved
	TBA	<10	18,000	Achieved
MW-13 *(7/21/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	13	1,800	Achieved
	TBA	<10	18,000	Achieved
MW-21 *(10/11/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	4.4	1,800	Achieved
	TBA	<10	18,000	Achieved
MW-22 *(10/11/11)*	TPHg	<200	210	Achieved
	Benzene	<2.0	46	Achieved
	MTBE	170	1,800	Achieved
	TBA	<40	18,000	Achieved
MW-23 *(10/11/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	11	1,800	Achieved
	TBA	<10	18,000	Achieved
MW-25 *(10/11/11)*	TPHg	<50	210	Achieved
	Benzene	<0.50	46	Achieved
	MTBE	6.9	1,800	Achieved
	TBA	<10	18,000	Achieved

Per CRA's February 14, 2012 *Groundwater Monitoring and Remediation Report – Third and Fourth Quarters 2011*, CRA will conduct a down-gradient subsurface investigation upon receiving access to the business park northwest of the Conway Western Express property as requested by the RWQCB. Shell is currently pursuing access to this property.

To continue to monitor groundwater conditions, CRA proposes modifications to the *Monitoring and Reporting Program No. 93-038* (MRP) issued on April 22, 1993. We show

all the proposed changes in Table 3, which was modified to incorporate feedback from the RWQCB, and present a summary below:

- Discontinue analyses for total recoverable petroleum hydrocarbons and 1,2-dichloroethane;
- Add ethanol analyses in selected wells;
- Reduce lead sampling and change total lead to dissolved lead analysis;
- Discontinue gauging and sampling and properly decommission wells MW-2, MW-3, MW-5, MW-7, and MW-12;
- Reduce gauging and sampling wells MW-1, MW-6, MW-9, MW-13, MW-14, and MW-18 to annual; and
- Reduce gauging and sampling wells MW-17, MW-19, MW-20, MW-21, MW-23, MW-24, and MW-25 to semiannual.

4.3 GROUNDWATER ANALYSIS AND PLUME MODELING

The Groundwater Spatio-Temporal Data Analysis Tool (GWSDAT) was used to model the site-specific chemical plumes using historical groundwater monitoring data. GWSDAT is a program developed by Shell Global Solutions to analyze the historical trends of chemicals in groundwater. The program provides visual models with constituent-specific concentration contours to aid in reporting trends for groundwater data. The GWSDAT program utilizes Microsoft Excel as the primary user interface and for data entry. The GWSDAT program uses the open source statistical program R for statistical calculations and graphical outputs.

CRA used historical groundwater monitoring data as the input to the GWSDAT program for generating plume models for dissolved-phase TPHd, TPHg, benzene, MTBE, and TBA. For each constituent, CRA generated concentration contour maps using groundwater monitoring data from 2002 (when the wells to the northwest were installed) through 2011. The historical plume models show that the magnitude of concentrations and the horizontal extent of the plume have decreased for TPHg, benzene, and MTBE. The horizontal extent of the TBA plume has shrunk, but the plume has increased in magnitude in the source zone. This increase indicates that biological degradation of MTBE may be occurring within the plume. GWE did not further decrease the magnitude or horizontal extent of the plumes during the last year of remediation system operation. This indicates that the system had reached its effective limit. Also, post-remediation plume models show stable chemical plumes in the central

portion of the site near wells MW-8, MW-10, and MW-15. MTBE and TBA concentrations in all off-site, down-gradient monitoring wells are below their respective ESLs, with the exception of TBA in piezometer P-1. The most recent groundwater monitoring data reported 28,000 µg/L TBA in P-1, while MTBE concentrations in this well are decreasing. TBA in well MW-24, which is immediately down-gradient from P-1, was 8,900 µg/L. This is below the TBA ESL and shows attenuation in the down-gradient direction. These data demonstrate that there is no significant risk to down-gradient sensitive receptors.

The concentration contour maps generated using GWSDAT program are presented in Appendix E.

5.0 FEASIBILITY STUDY AND CORRECTIVE ACTION PLAN

5.1 PROPOSED SITE CLEANUP GOALS

Cleanup goals are typically based on one or more of the following criteria:

- California Department of Health Services primary or secondary maximum contaminant levels for drinking water;
- ESLs established by the RWQCB;
- Risk-based cleanup levels established by risk assessment or risk-based corrective action analysis;
- Current closure guidelines from the regulatory agencies, such as the State Water Board criteria for low-risk groundwater cases;
- Application of Best Available Technology based on remediation system operation data that demonstrate asymptotic levels have been achieved for chemical concentrations in soil and/or groundwater;
- Background concentrations of individual pollutants; and/or
- Technologic and economic feasibility.

The objectives are to implement the most effective approach to remediate soil and groundwater beneath the site and to protect sensitive receptors and human health.

As discussed above, site construction workers are potential receptors to impacted soil. Therefore, direct exposure ESLs for construction or trench workers (Table K-3 of the ESL document) are proposed as cleanup goals.

TABLE B	
COC	***ESL (mg/kg)***
TPHd	4,200
TPHg	4,200
Benzene	12
MTBE	2,800
TBA	320,000

As discussed above, shallow groundwater in the vicinity of the terminal is not considered a source of drinking water. Non-drinking water ESLs (from Table B of the ESL document) are proposed as cleanup goals.

TABLE C	
COC	***Water Quality Objective (μg/L)***
TPHd	210
TPHg	210
Benzene	46
Toluene	130
Ethylbenzene	43
Xylenes	100
MTBE	1,800
TBA	18,000
Lead	2.5

5.2 REMEDIAL ALTERNATIVES DISCUSSION AND APPROACH

SVE, excavation, and GWE have been implemented at this site with varying success. The SVE and GWE systems were operated until reaching their respective cost-effective limits.

The remedial technologies selected for evaluation include GWE, sulfate injection, air injection system, ozone injection, and monitored natural attenuation (MNA). Each of these five alternatives is discussed below and evaluated on the basis of technical

feasibility and cost effectiveness. All active remediation strategies are based upon source area remediation in the vicinity of wells MW-10 and MW-15.

5.2.1 GWE

5.2.1.1 DESCRIPTION

GWE, the most commonly utilized remediation technique, consists of extraction, routing through a treatment system, and disposal of treated water. Extraction is usually achieved through down-well pumps. Treatment systems typically use granular-activated carbon for treatment. Treated water can be discharged to a sanitary sewer or storm drain under an appropriate permit.

GWE provides limited mass removal of hydrocarbons, but also provides hydraulic containment of the groundwater plume. Limitations of GWE include the inability to remove COCs adsorbed to soil and low permeability medium. When COCs are adsorbed to the soil, the success of GWE is dependent on the rate of desorption from the soil.

5.2.1.2 FEASIBILITY AND COST EFFECTIVENESS

The existing GWE system operated from 1999 to 2008, as described in section 3.4. This system removed 796.4 pounds of TPHg, 13.8 pounds of benzene, and 790.4 pounds of MTBE. This system was operated as a pump-to-tank system and then discharged effluent to the storm sewer under the region-wide NPDES permit. Operating the system under the NPDES permit is extremely costly based on the permit compliance conditions. CRA evaluated operating the system by pumping the discharge to a holding tank and then transporting it to a disposal facility, but this proved even more costly due to transportation costs.

TPHg and benzene system influent concentrations had declined below ESLs prior to shutdown. Influent MTBE concentrations were within the same order of magnitude as the ESL. In the months prior to shutdown, the MTBE mass removal rate was less than 0.035 pounds per day, which is very low and a 67 percent reduction from the initial MTBE mass removal rate. Well pump tests were conducted by CRA in December 2009 to determine, in part, if the system could be optimized. The pump test data indicated that the existing or modified system could not cost-effectively achieve a substantially improved MTBE mass removal rate due to the limited yield of the aquifer in the area

with the highest MTBE concentrations. Furthermore, the plume modeling discussed above indicates that plumes are stable and attenuating naturally. As previously discussed, no sensitive receptors are threatened at concentrations above ESLs. Therefore, hydraulic control of the chemical plumes is not necessary.

Past GWE system operations and the associated costs demonstrated that GWE is not a cost-effective method for reducing COC mass. A cost-to-closure for re-implementation of GWE was not developed since actual cost data has shown it is not a cost-effective option.

5.2.1.3 RECOMMENDATION

CRA does not recommend re-implementing GWE since it is neither warranted by a threat to sensitive receptors nor cost-effective as demonstrated by past operations and associated costs.

5.2.2 SULFATE INJECTION

5.2.2.1 DESCRIPTION

Sulfate injection stimulates biodegradation by providing a soluble, readily available electron acceptor. Hydrocarbon plumes are typically anaerobic and depleted of sulfate. In the presence of elevated sulfate, anaerobic groundwater bacteria use petroleum hydrocarbons for carbon and energy while mineralizing the hydrocarbons to carbon dioxide and water.

This process occurs through the oxidation of the hydrocarbons with the reduction of inorganic terminal electron acceptor compounds such as nitrate, sulfate, and iron. Adding an electron acceptor, such as sulfate, to soil and groundwater will aid in increased degradation by providing a readily available electron acceptor. Sulfate addition can be implemented as a soil amendment using gypsum or introduced in soluble form, using commercial products, into injection wells. The effectiveness of sulfate injection is dependent on the availability of microorganisms in the subsurface and the ability to inject and disperse adequate sulfate material into the target area.

5.2.2.2 FEASIBILITY AND COST EFFECTIVENESS

For the subject site, CRA would inject a commercially available sulfate solution into existing monitoring wells and possibly new injection wells. At a minimum, bioparameter data would need to be collected to determine if the source area is sulfate depleted (relative to background levels) as a result of biodegradation or if any/all other electron acceptors are depleted indicating methanogenesis. The aquifer pump test described in section 3.8 provided the rate of GWE as well as the radius of influence on select wells. The GWE rate varied from 0.5 gpm in MW-19 to 4.0 gpm in MW-10. It is expected that the sulfate solution could not be injected into the formation at the same rate of GWE, but at a much lower rate. The aquifer characteristics may inhibit the injection of adequate volume of sulfate solution. Furthermore, the data from the pump tests suggested the presence of soil heterogeneities. This would inhibit the uniform dispersion of the sulfate solution and contact with COCs.

5.2.2.3 RECOMMENDATION

Collection and review of bioparameter data is required to validate this remedial approach. CRA does recommend collecting bioparameter data to evaluate the subsurface biological conditions. However, CRA does not believe that adequate sulfate solution could be injected and effectively dispersed. CRA does not recommend sulfate injection due to the low probability of success. No cost estimate was developed for this method since bioparameter data is not available to validate the approach and the technical feasibility and effectiveness is questionable.

5.2.3 AIR INJECTION

5.2.3.1 DESCRIPTION

Air injection stimulates aerobic biodegradation of hydrocarbons and other gasoline constituents by oxygenating groundwater through injection of air. The injection system consists of an air compressor or blower and automated gas delivery manifold. Air is pulse injected using a timer-automated system to injection points located in the plume or at the periphery as a curtain. Due to the high solubility of oxygen within air, groundwater dissolved oxygen (DO) increases and transports in the plume by dispersion and advective groundwater flow. The intermittent injection of air in short pulses results in increased oxygen transfer efficiency and prevents hydrocarbon volatilization. Naturally occurring bacteria use the available oxygen to degrade COCs.

5.2.3.2 FEASIBILITY AND COST EFFECTIVENESS

Petroleum hydrocarbons are known to biodegrade aerobically. MTBE and TBA biodegradation can be slower in the presence of petroleum hydrocarbons such as benzene. An increase in DO via air injection may accelerate biodegradation in the saturated zone. Air injection relies on adequate dispersion of DO through the formation. As previously discussed, pump test data indicated the presence of soil heterogeneities which may affect the dispersion of air. Additionally, some of the areas with low permeability soils may not accept the minimum air flow feasibility criterion. The collection of bioparameters is required to understand the subsurface biological conditions and an air injection pilot test would be necessary to verify the feasibility of air injection and collect system design parameters.

For the purpose of costing this approach, an air injection system was conceptualized. Approximately 20 air injection points would be installed in the vicinity of existing monitoring wells MW-8, MW-10, and MW-15. Each of the injection points would be installed to a total depth of 20 fbg and screened from 18 to 20 fbg. New conveyance piping for air injection would need to be installed from the injection points to a remediation compound.

An air injection pilot test is estimated to cost $12,000. Air injection well installation is estimated to cost $60,000. Design, permitting, and installation of an air injection system are estimated to cost $215,000. The annual operational cost is estimated at $30,000. The system is anticipated to operate for 3 years, which equates to a total operational cost of $90,000. Groundwater monitoring for approximately 6 years (3 years of air injection system install and operation and 2 years post-operation) at $15,000 per year would cost $90,000. System demo would cost approximately $20,000. Case closure and proper well destruction by pressure grouting would cost approximately $100,000. The lifecycle project cost for this alternative is estimated to be $587,000.

5.2.3.3 RECOMMENDATION

CRA recommends collecting bioparameters to assess the subsurface biological conditions. Air injection pilot testing is necessary to verify that sufficient air can be injected into and distributed through the formation. However, CRA does not recommend this approach. The large life-cycle cost for this approach is not justified by the remedial drivers. Again, the chemical plumes are stable and attenuating, and no

sensitive receptors are threatened. Off-site COCs are below their respective ESLs with the one exception previously discussed. There are no plans to change the existing use of the site as a bulk fuel terminal.

5.2.4 OZONE INJECTION

5.2.4.1 DESCRIPTION

Ozone is the tri-atomic, highly reactive, relatively unstable form of oxygen, with a short half-life of approximately 2 minutes in ambient air conditions and 20 minutes in the aqueous phase. In the aqueous phase, dissolved ozone can directly oxidize contaminants, degrade to the hydroxyl radical (which in turn can oxidize benzene), or degrade to dissolved oxygen, which can enhance natural biodegradation of contaminants. Ozone is 12.5 times more soluble in water than oxygen, which allows it to dissolve in water at substantially higher concentrations than pure oxygen. An ozone sparging system would utilize ozone-generating equipment, injection points, and trenched conveyance piping.

Ozone can react strongly with subsurface utilities, and safety concerns for its use at an active terminal should be considered. Strong oxidation processes such as those produced by ozone injection into earth materials have the potential to generate ancillary compounds that can dissolve into groundwater. These compounds may include trivalent and pentavalent arsenic, trivalent and hexavalent chromium, bromide, bromate, iron and manganese. Although published studies suggest that these reactive byproducts are short-lived, a bench study is typically required before implementation of this alternative.

5.2.4.2 FEASIBILITY AND COST EFFECTIVENESS

Similar to air injection, ozone injection is dependent on the formation's ability to accept adequate ozone and dispersion. Additionally, ozone generation equipment commonly cannot readily generate and deliver sufficient ozone mass to effectively oxidize residual COC mass in the subsurface. A bench scale test and pilot test would be necessary to confirm the feasibility and effectiveness of ozone injection.

CRA conceptualized an ozone injection system comparable to the air injection system described above. Twenty injection wells would be installed to target the area around wells MW-8, MW-10, and MW-15. The life-cycle costs for ozone injection are estimated

to be the same as the air injection approach with the following exceptions. A bench scale test would add approximately $10,000 to the life-cycle cost, and the ozone injection equipment would cost approximately $30,000 more the air injection equipment. With these added costs, the total cost to closure for ozone injection is estimated at $627,000.

5.2.4.3 RECOMMENDATION

CRA does not recommend ozone injection. The technical feasibility of ozone injection is questionable due to the low permeability soils and soil heterogeneities. Additionally, ozone injection equipment typically cannot produce and deliver sufficient ozone mass to effectively oxidize COC mass. Lastly, ozone injection is the highest cost option of the approaches considered.

5.2.5 MNA

5.2.5.1 DESCRIPTION

Biodegradation, adsorption, chemical reactions, and volatilization can all naturally degrade petroleum hydrocarbons and oxygenates. MNA consists of monitoring the natural degradation processes that take place in the subsurface. The primary indicator of natural attenuation is a decreasing COC concentration trend. Secondary indicators such as DO concentrations, oxidation-reduction potential, alkalinity, nitrate, sulfate, and ferrous iron concentrations are also used to evaluate the existence of and the potential for natural attenuation.

5.2.5.2 FEASIBILITY AND COST EFFECTIVENESS

Based on the site hydrogeologic conditions, the absence of or very low petroleum constituent concentrations detected in the perimeter monitoring wells, and the distance of the wells from the site, it is unlikely that the site COC plumes could impact known water-supply wells. Shallow groundwater in the vicinity of the terminal is not considered a source of drinking water. The nearest sensitive receptor is Coyote Creek, which is not used for drinking water. All COCs are well below their respective fresh water aquatic habitat goals.

SPHs have not been observed on site since 2005 (MW-10). As previously discussed and illustrated in the plume models presented in Appendix E, COC plumes are stable to

shrinking. All COCs in off-site, down-gradient wells are below their respective ESL with the exception of TBA in P-1 as previously discussed. The presence of TBA and its correlation to the decreasing MTBE concentration trend indicates that natural attenuation is occurring.

The cost of continued groundwater monitoring would be approximately $13,800 per year over a 5-year period, totaling $69,000. Case closure and proper well destruction by pressure grouting would cost approximately $40,000. The lifecycle project cost for this alternative is estimated to be $109,000.

5.2.5.3 RECOMMENDATION

MNA is technically feasible and adequately protective of the environment given the current site conditions and risk to receptors. Based on this evaluation, MNA is the most cost-effective and practical approach given the site's current and future use as a bulk fuel terminal. CRA recommends MNA for this site. CRA also recommends collection of bioparameters for one hydrologic cycle to evaluate the subsurface biological conditions.

5.3 COMPARISON OF REMEDIAL ALTERNATIVES

TABLE D					
	GWE	*Sulfate Injection*	*Air Injection*	*Ozone Injection*	*MNA*
Effectiveness	Poor	Poor	Poor to moderate	Poor to moderate	Good
Pilot Testing	NA	NA	$12,000	$22,000	NA
Design and Permitting	NA	NA	$25,000	$25,000	NA
Well Installation	NA	NA	$60,000	$60,000	
Equipment and Installation	NA	NA	$190,000	$220,000	NA
Operational Duration	NA	NA	3 years	3 years	NA
Average Annual Operational Cost	NA	NA	$30,000	$30,000	NA
Total Operational Cost	NA	NA	$90,000	$90,000	NA
Annual Groundwater Monitoring Cost	NA	NA	$15,000	$15,000	$13,800
Total Groundwater Monitoring Duration	NA	NA	6 years	6 years	5 years
Total Groundwater Monitoring Cost	NA	NA	$90,000	$90,000	$69,000
System Demo	NA	NA	$20,000	$20,000	NA
Closure Request and Well Destructions	NA	NA	$100,000	$100,000	$40,000
Total Cost	NA	NA	$587,000	$627,000	$109,000

6.0 CONCLUSIONS

Our evaluation shows that the COC plumes appear to be stable and no sensitive receptors are at risk. Our evaluation has further determined that MNA is the preferred remedial option and is adequately protective of the environment.

7.0 RECOMMENDATIONS

Based on the information presented and the evaluation of remedial alternatives, CRA recommends implementing MNA. CRA also recommends collecting bioparameters for one hydrologic cycle to assess the subsurface biological conditions.

As discussed above, CRA also proposes to modify the MRP as shown on Table 3 and to conduct a down-gradient subsurface investigation upon receiving access to the business park northwest of the Conway Western Express property.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Aubrey K. Cool

Aubrey K. Cool, PG

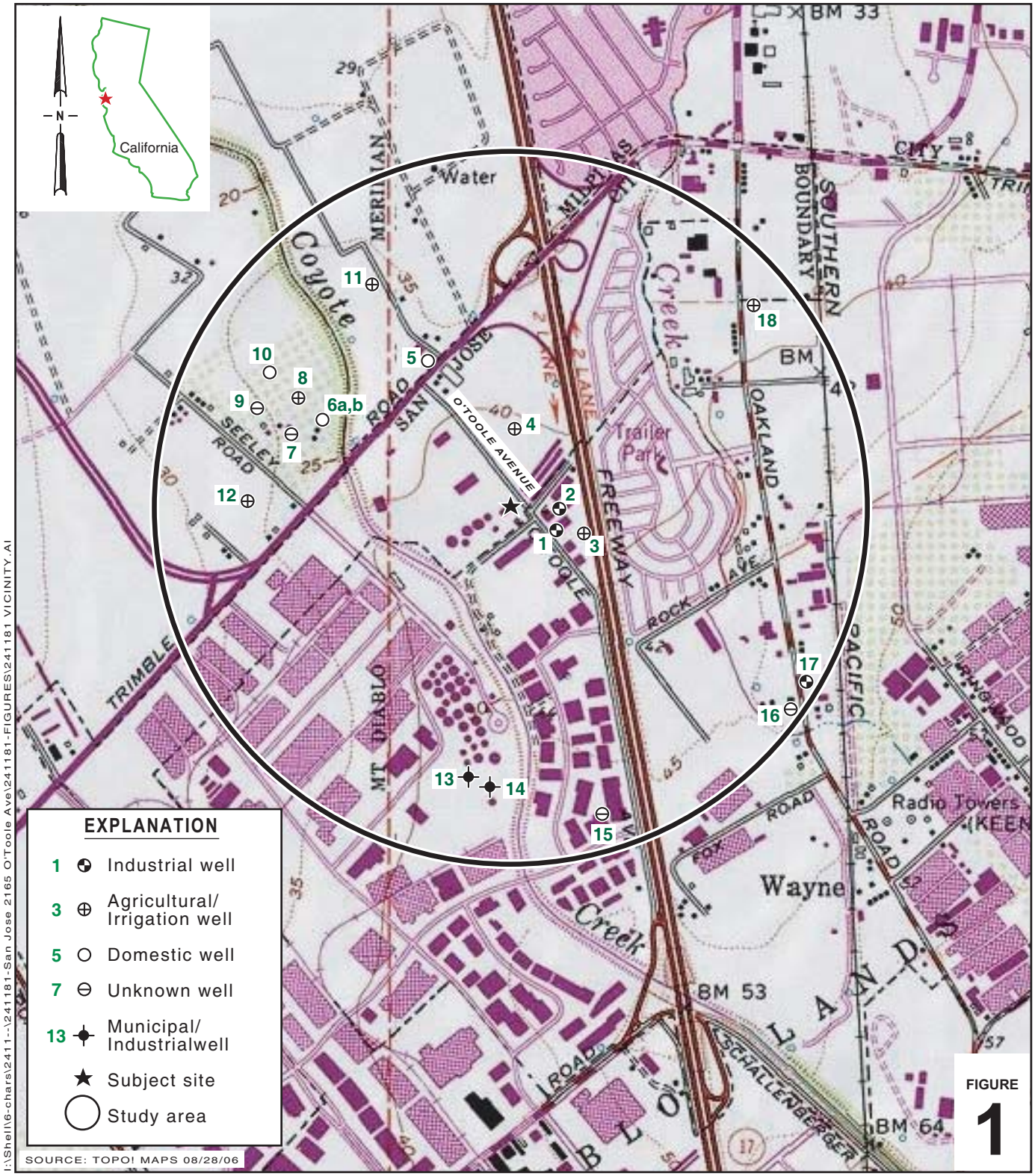
PROFESSIONAL GEOLOGIST
AUBREY K. COOL
No. 7659
STATE OF CALIFORNIA

for:

Dan Lescure

FIGURES

05/28/10



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SCALE : 1" = 1/4 MILE

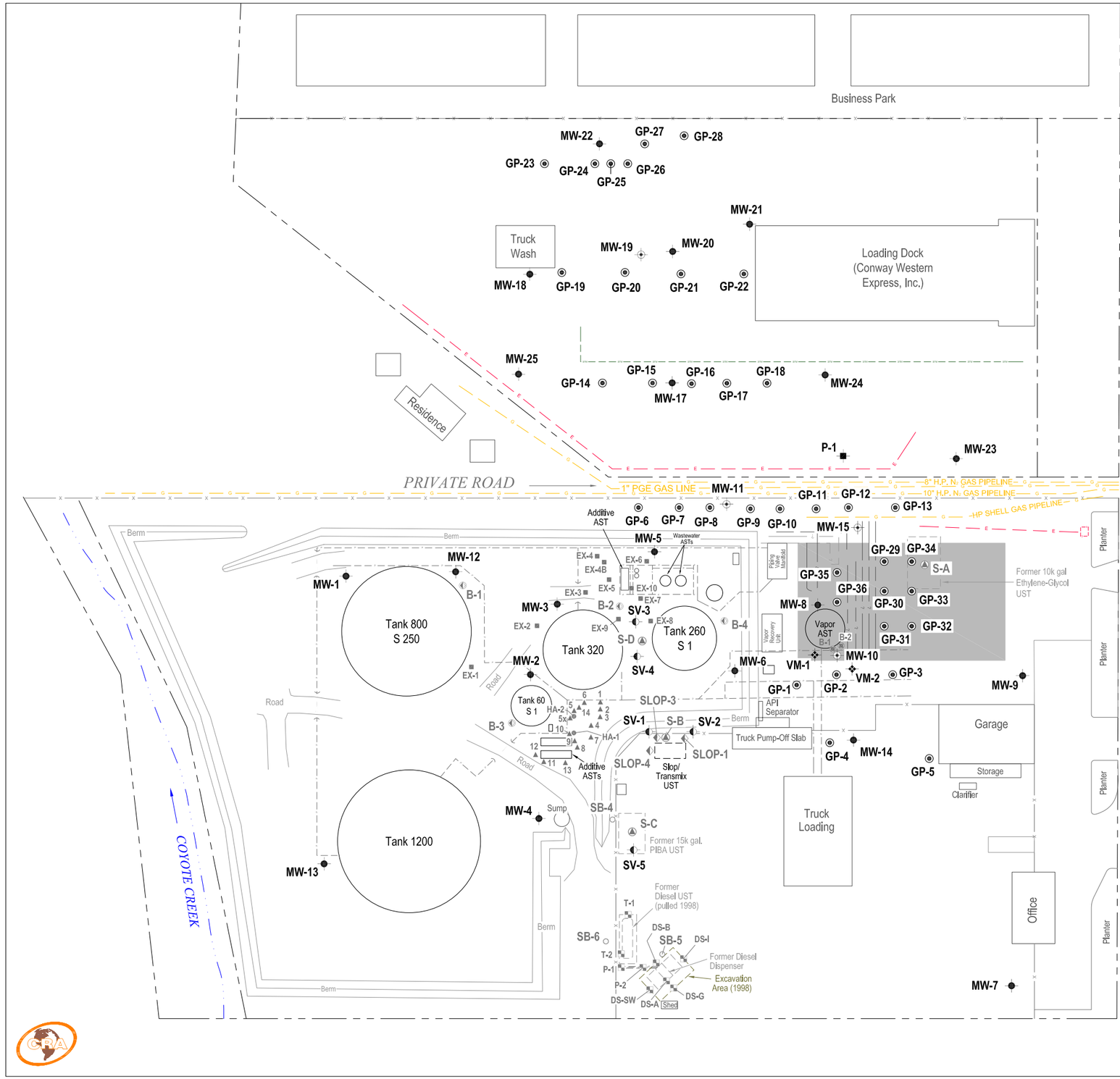
Shell San Jose Terminal

2165 O'Toole Avenue

San Jose, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map



LEGEND

MW-1	Groundwater monitoring well location
P-1	Piezometer well location
MW-10	Groundwater extraction well location
VM-1	Vadose zone monitoring well location
SV-1	Soil vapor monitoring well location
GP-1	Soil boring location (Toxichem, 2000)
GP-12	Soil boring location (Toxichem, 2001-2002)
GP-29	Soil boring location (CRA, 2010)
EX-1	Soil sample location (Toxichem, 2001)
B-1	Soil boring location (Toxichem, 2000)
HA-1	Hand-auger soil boring location (Toxichem, 1999)
1	Soil sample location (Toxichem, 1999)
DS-A	Soil sample location (Cambria, 1998)
SB-4	Soil boring location (PEG, 1996)
S-A	Soil boring location (PEG, 1993)
B-1	Soil boring location (PEG, 1992)
SLOP-1	Soil sample location (GTI, 1992)
	Gas line (G)
	Electrical line (E)
	Storm drain line (STM)
	Aboveground product piping (P)
	Unknown aboveground piping (?)
	Unknown underground piping (?)
	Soil assessment area

0 50 100ft

Figure 2

Site Plan
Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

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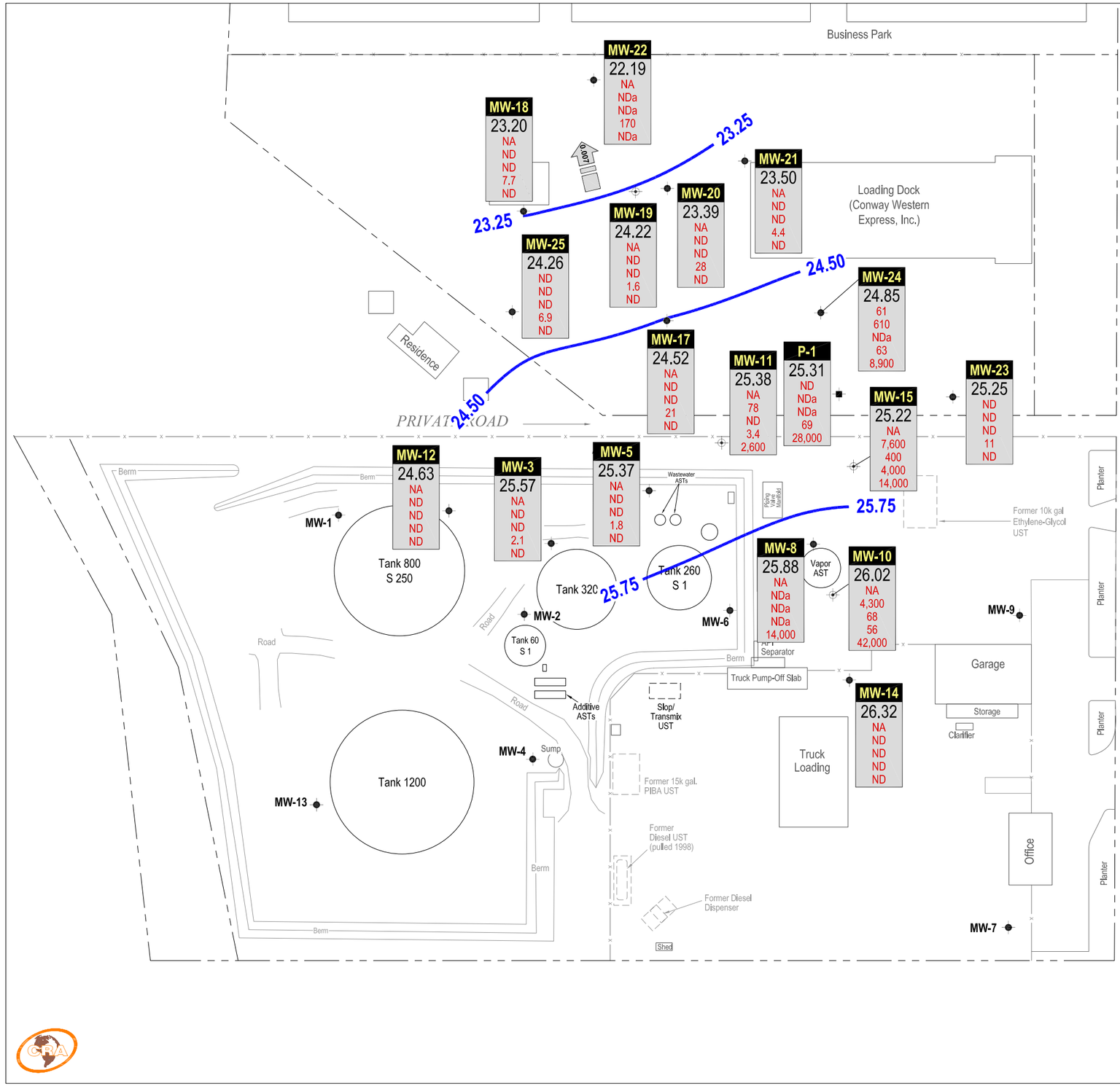

LEGEND

- **MW-1** — Groundwater monitoring well location
- **P-1** — Piezometer well location
- **MW-10** — Groundwater extraction well location (not used in contouring)
- x.xx — Groundwater flow direction and gradient
- xx.xx — Groundwater elevation contour, in feet above mean sea level (ft MSL)
- MW-1 / ELEV. / TPHd TPHg Benzene MTBE TBA
  - Well designation
  - Groundwater elevation, in ft MSL
  - TPHd, TPHg, benzene, MTBE, and TBA concentrations are in micrograms per liter

Notes:
NA = Not analyzed
ND = Not detected
NDa = Elevated reporting limit; see laboratory report for details

0 50 100ft

Figure 3

Groundwater Contour and Chemical Concentration Map
October 11, 2011
Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

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TABLES

TABLE 1

WELL SURVEY DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE
SAN JOSE, CALIFORNIA

Map Number	*Well Use*	*Well Total Depth (fbg)*	*Screened Interval(s) (feet)*	*Depth to Water (fbg)*	*Sanitary Seal Yes/No and Depth (feet)*	*Date Installed*	*Approximate Distance from Site (feet)*	*Direction of Well from Site*	*Status*	*Data Source*	*Well Number*	*Notes*
1	Industrial	470	406-413, 414-450	30	Yes/0-32	Jul-Nov-1996	350	East	Unknown	DWR	6/1E-19E	Similar to location of destroyed wells 06S01EL001& 06S01EL010 found in SCVWD records, but SCVWD lists the use of both destroyed wells as "domestic".
2	Industrial	430	116-123, 121-140, 350-390	40	Yes/0-32	Apr-Jul-1996	400	East	Unknown	DWR	6/1E-19L	Similar to location of destroyed wells 06S01EL001& 06S01EL010 found in SCVWD records, but SCVWD lists the use of both destroyed wells as "domestic".
3	Irrigation	384	252-295, 352-367	74	No	Nov-1951	425	East	Unknown	DWR	6/1E-19L	Similar to location of destroyed wells 06S01EL001& 06S01EL010 found in SCVWD records, but SCVWD lists the use of both destroyed wells as "domestic".
4	Irrigation	312	NA-307	41	No	Apr-1953	450	North	Unknown	DWR	6S/1E-19C	
5	Domestic	112	NA	25	Yes/0-52	Jan-1959	1,400	North	Unknown	DWR	6/1W-24 & 6S/1E-19E5	
6a	Domestic	297	132-297	NA	NA	Apr-1972	1,500	Northwest	Active	SCVWD	06S01W24H014	Same location and ID in SCVWD and DWR records, different well data in SCVWD and DWR records.
6b	Domestic	330	250-320	NA	Yes/0-230	Apr-May-1995	1,500	Northwest	Unknown	DWR	06S01W24H014	Same location and ID in SCVWD and DWR records, different well data in SCVWD and DWR records.
7	Unknown	NA	NA	NA	NA	NA	1,600	Northwest	Standby	SCVWD	06S01W24H005	
8	Irrigation	NA	NA	NA	NA	NA	1,700	Northwest	Active	SCVWD	06S01W24H010	
9	Unknown	NA	NA	NA	NA	NA	1,800	Northwest	Standby	SCVWD	06S01W24H006	
10	Domestic	305	132-297	NA	NA	Apr-1972	1,900	Northwest	Standby	SCVWD and DWR	06S01W24H007 & 6S/1W-24J	
11	Irrigation	124	76-84, NA-117	15	No	Aug-1952	1,900	North	Unknown	DWR	6S/1W-24H	Older well shown 25 feet northeast in DWR records.
12	Irrigation	150	38-120	NA	No	Apr-1962	2,100	West	Unknown	DWR	6/1W-24	
13	Municipal and Industrial	NA	NA	NA	NA	NA	2,500	South	Active	SCVWD	06S01E25D011	
14	Municipal and Industrial	NA	NA	NA	NA	NA	2,600	South	Active	SCVWD	06S01E25D010	
15	Unknown	310	NA	NA	NA	May-1959	2,700	South	Unknown	DWR	6S/1E-30C81 or 6S/1E-30C6	
16	Unknown	309	257-294	NA	NA	Jun-1952	2,700	Southeast	Unknown	DWR	6S/1E-19Q8	
17	Industrial	290	250-282	10	No	Dec-1956	2,800	Southeast	Unknown	DWR	6S/1E-19Q7	
18	Irrigation	314	255-300	5	No	Feb-1952	2,800	Northeast	Unknown	DWR	6S/1E-19H2	Older well shown 8 feet northwest in DWR records.

Notes:
fbg = feet below grade
NA = Not available
DWR = California Department of Water Resources
SCVWD = Santa Clara Valley Water District

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	Date	O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	Total Lead (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (mg/L)
MW-1	03/18/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	17.74	22.47	---	---
MW-1	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	19.02	21.19	---	---
MW-1	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	18.00	22.21	---	---
MW-1	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	18.98	21.23	---	---
MW-1	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	16.49	23.72	---	---
MW-1	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	18.02	22.19	---	---
MW-1	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	17.06	23.15	---	---
MW-1	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	17.63	22.58	---	---
MW-1	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	16.19	24.02	---	---
MW-1	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.21	16.76	23.45	---	---
MW-1	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.28	16.89	23.39	---	---
MW-1	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.28	16.62	23.66	---	---
MW-1	07/05/1994	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	40.28	17.10	23.18	---	---
MW-1	01/12/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.28	15.21	25.07	---	---
MW-1	07/05/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.28	15.90	24.38	---	---
MW-1	01/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	16.00	24.28	---	---
MW-1	07/16/1996	ND	62	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	15.82	24.46	---	---
MW-1	01/16/1997	ND	65	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	13.85	26.43	---	---
MW-1	08/01/1997	ND	61	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	16.65	23.63	---	---
MW-1	01/29/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	14.70	25.58	---	---
MW-1	07/24/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	15.75	24.53	---	---
MW-1	01/13/1999	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.28	17.05	23.23	---	---
MW-1	07/16/1999	ND	<50	<50	<0.5	<0.5	<0.5	<0.5	<3	---	---	---	---	---	---	ND	40.28	16.53	23.75	---	0.9
MW-1	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	4	---	---	---	---	---	---	---	40.28	17.50	22.78	---	0.6
MW-1	01/26/2000	<0.050	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	40.28	---	---	---	---
MW-1	07/31/2000	<0.500	<50	<50	<0.5	<0.5	<0.5	<1	8	8.0	---	---	---	---	---	0.003	40.28	16.50	23.78	---	2.1
MW-1	01/04/2001	<0.500	<50 e	<50	<0.5	<0.5	<0.5	<1.0	22	17	---	---	---	---	---	<0.050	40.28	16.67	23.61	---	0.7/0.9/0.6
MW-1	07/20/2001	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	35	---	---	---	---	---	0.00244	40.28	16.94	23.34	---	1.0
MW-1	01/10/2002	<1.0	<50 e	<50	<0.50	<0.50	<0.50	0.85	---	37	---	---	---	---	---	0.00172	40.28	15.38	24.90	---	1.4
MW-1	07/17/2002	<5	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	33	---	---	---	---	---	<0.00100	40.28	17.51	22.77	---	0.6
MW-1	10/16/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	18.00	22.28	---	---
MW-1	01/08/2003	1.2 k	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	30	---	---	---	---	---	<0.00100	40.28	14.98	25.30	---	0.9
MW-1	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	15.70	24.58	---	---
MW-1	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	21	---	---	---	---	---	0.0012	40.28	16.83	23.45	---	0.2
MW-1	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	17.47	22.81	---	---
MW-1	01/29/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	21	---	---	---	---	---	<0.001	40.28	15.78	24.50	---	1.4
MW-1	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	16.28	24.00	---	---
MW-1	07/27/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	16	---	---	---	---	---	<0.001	40.28	17.12	23.16	---	0.2
MW-1	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	16.75	23.53	---	---
MW-1	01/25/2005	<2	<500	<50	<0.5	<0.5	<0.5	<2	---	13	---	---	---	---	---	0.0038	40.28	14.93	25.35	---	0.9
MW-1	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	14.36	25.92	---	---
MW-1	07/14/2005	<2	<50	<50	<0.5	<0.5	<0.5	<0.5	---	6.9	---	---	---	---	---	0.00116	40.28	16.07	24.21	---	2.1
MW-1	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	16.75	23.53	---	---
MW-1	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	7.5	<5.0	---	---	---	---	<0.0025	40.28	14.40	25.88	---	0.5
MW-1	09/27/2006	<4.7	<50 t	<50	<0.50	<0.50	<0.50	<0.50	---	7.0	<20	---	---	---	---	<0.0005	40.28	16.02	24.26	---	0.3
MW-1	01/12/2007	<4.7	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	4.7	<5.0	---	---	---	---	0.001	40.28	15.84	24.44	---	1.3
MW-1 (D)	01/12/2007	---	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	3.7	<5.0	---	---	---	---	---	40.28	---	---	---	---
MW-1	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	15.92	24.36	---	---
MW-1	07/06/2007	<1.0	73 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	4.4	<10	---	---	---	---	0.000850 p	40.28	16.50	23.78	---	0.05

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-1	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.28	16.26	24.02	---	---
MW-1	01/31/2008	<1.0	64 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.8	<10	---	---	---	---	0.00157	40.28	14.30	25.98	---	0.56
MW-1	07/30/2008	1.5	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	5.0	<10	---	---	---	---	0.0017	40.28	16.71	23.57	---	0.58
MW-1	01/07/2009	<1.0	230 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	5.7	<10	---	---	---	---	0.00217	40.28	16.55	23.73	---	1.41
MW-1	07/15/2009	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	4.1	<10	---	---	---	---	0.00267	40.28	16.68	23.60	---	0.06
MW-1	01/13/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	5.1	<10	---	---	---	---	0.00321	40.28	15.63	24.65	---	0.45
MW-1	07/08/2010	<1.0	120 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	3.9	<10	---	---	---	---	<0.00100	40.28	15.84	24.44	---	1.17
MW-1	01/25/2011	<5.0	<47 e	<50	<0.50	<0.50	<0.50	<1.0	---	3.6	<10	---	---	---	---	0.0011	40.28	15.42	24.86	---	0.88
MW-1	**07/21/2011**	**<4.9**	**<50 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**2.8**	**<10**	**---**	**---**	**---**	**---**	**0.0026**	**40.28**	**15.37**	**24.91**	**---**	**0.22**
MW-2	03/18/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	16.67	23.59	---	---
MW-2	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	10.47	29.79	---	---
MW-2	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	10.98	29.28	---	---
MW-2	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	17.78	22.48	---	---
MW-2	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	15.05	25.21	---	---
MW-2	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	16.74	23.52	---	---
MW-2	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	15.53	24.73	---	---
MW-2	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	16.35	23.91	---	---
MW-2	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	14.60	25.66	---	---
MW-2	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	15.25	25.01	---	---
MW-2	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.26	15.70	24.56	---	---
MW-2	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.26	15.32	24.94	---	---
MW-2	07/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.26	15.64	24.62	---	---
MW-2	01/12/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.26	13.02	27.24	---	---
MW-2	07/05/1995	ND	50	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.26	14.39	25.87	---	---
MW-2	01/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.26	14.70	25.56	---	---
MW-2	07/16/1996	ND	71	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.26	14.48	25.78	---	---
MW-2	01/16/1997	ND	65	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.26	12.42	27.84	---	---
MW-2	08/01/1997	ND	58	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.26	15.00	25.26	---	---
MW-2	01/29/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.26	12.68	27.58	---	---
MW-2 (D)	01/29/1998	---	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	40.26	---	---	---	---
MW-2	07/24/1998	ND	ND	ND	ND	ND	ND	ND	5.4	---	---	---	---	---	---	ND	40.26	14.10	26.16	---	---
MW-2	01/13/1999	ND	ND	ND	ND	ND	ND	ND	2.57	---	---	---	---	---	---	ND	40.26	15.65	24.61	---	---
MW-2	07/16/1999	ND	<50	<50	<0.5	<0.5	<0.5	<0.5	<3	---	---	---	---	---	---	ND	40.26	15.20	25.06	---	1.1
MW-2	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	4	---	---	---	---	---	---	---	40.26	15.75	24.51	---	0.8
MW-2 (D)	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	4	---	---	---	---	---	---	---	40.26	---	---	---	---
MW-2	01/26/2000	<0.050	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	40.26	---	---	---	---
MW-2	07/31/2000	<0.500	<50	<50	<0.5	<0.5	<0.5	<1	5	4.6	---	---	---	---	---	0.003	40.26	15.09	25.17	---	3.3
MW-2	01/04/2001	<0.500	<50 e	<50	<0.5	<0.5	<0.5	<1.0	<5	3	---	---	---	---	---	<0.050	40.26	14.99	25.27	---	0.3
MW-2	07/20/2001	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	0.00188	40.26	15.51	24.75	---	0.9
MW-2	01/10/2002	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	0.00326	40.26	12.93	27.33	---	1.9
MW-2	07/17/2002	<5	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	<0.00100	40.26	16.30	23.96	---	0.7
MW-2	10/16/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	16.89	23.37	---	---
MW-2	01/08/2003	<1.0 k	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	0.00181	40.26	12.73	27.53	---	2.0
MW-2	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	12.81	27.45	---	---
MW-2	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	---	0.0029	40.26	15.43	24.83	---	1.1
MW-2 (D)	07/10/2003	---	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	---	---	40.26	---	---	---	---
MW-2	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	16.08	24.18	---	---
MW-2	01/29/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	0.52	---	---	---	---	---	<0.001	40.26	14.00	26.26	---	1.5/2.7

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-2	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	14.88	25.38	---	---
MW-2	07/27/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	<0.5	---	---	---	---	---	<0.001	40.26	15.88	24.38	---	0.3
MW-2	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	15.32	24.94	---	---
MW-2	01/25/2005	<2	<500	<50	<0.5	<0.5	<0.5	<2	---	<0.5	---	---	---	---	---	0.00305	40.26	13.12	27.14	---	0.7
MW-2	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	13.00	27.26	---	---
MW-2	07/14/2005	<2	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<0.5	---	---	---	---	---	<0.001	40.26	14.55	25.71	---	2.4
MW-2	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	15.30	24.96	---	---
MW-2	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	<0.0025	40.26	12.37	27.89	---	0.2
MW-2	09/27/2006	4.9	57 g,t	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<20	---	---	---	---	<0.0005	40.26	14.37	25.89	---	0.2
MW-2 (D)	09/27/2006	---	<47 t	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<20	---	---	---	---	<0.0005	40.26	---	---	---	---
MW-2	01/12/2007	<4.8	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	0.0025	40.26	14.24	26.02	---	1.2
MW-2	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	14.32	25.94	---	---
MW-2	07/06/2007	<1.0	51 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	0.36 p	<10	---	---	---	---	0.00116	40.26	14.90	25.36	---	0.1
MW-2	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.26	14.57	25.69	---	---
MW-2	01/31/2008	<1.0	230 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00135	40.26	11.51	28.75	---	0.62
MW-2 (D)	01/31/2008	---	380 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	40.26	---	---	---	---
MW-2	07/30/2008	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	1.2	<10	---	---	---	---	0.00192	40.26	15.44	24.82	---	0.62
MW-2	01/07/2009	1.2	69 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00419	40.26	15.16	25.10	---	1.96
MW-2	07/15/2009	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00199	40.26	15.27	24.99	---	0.36/0.04
MW-2 (D)	07/15/2009	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	40.26	---	---	---	---
MW-2	01/13/2010	4.1	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00126	40.26	14.53	25.73	---	0.52
MW-2 (D)	01/13/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	40.26	---	---	---	---
MW-2	07/08/2010	<1.0	180 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.0014	40.26	14.35	25.91	---	1.81
MW-2	01/25/2011	<5.0	47 e	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	<0.0010	40.26	13.95	26.31	---	1.29
MW-2	**07/21/2011**	**<5.0**	**<49 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**0.0020**	**40.26**	**13.91**	**26.35**	**---**	**0.22**
MW-3	03/18/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	16.50	23.42	---	---
MW-3	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	17.86	22.06	---	---
MW-3	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	17.24	22.68	---	---
MW-3	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	17.64	22.28	---	---
MW-3	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	14.67	25.25	---	---
MW-3	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	16.61	23.31	---	---
MW-3	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	15.30	24.62	---	---
MW-3	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	16.20	23.72	---	---
MW-3	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	14.54	25.38	---	---
MW-3	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	15.12	24.80	---	---
MW-3	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	39.92	15.45	24.47	---	---
MW-3	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	39.92	15.10	24.82	---	---
MW-3	07/05/1994	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	39.92	15.54	24.38	---	---
MW-3	01/12/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	12.99	26.93	---	---
MW-3	07/05/1995	---	72	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	39.92	14.12	25.80	---	---
MW-3	01/10/1996	ND	ND	ND	ND	ND	ND	ND	200	---	---	---	---	---	---	ND	39.92	14.55	25.37	---	---
MW-3	07/16/1996	ND	98	ND	ND	ND	ND	ND	140	---	---	---	---	---	---	ND	39.92	14.35	25.57	---	---
MW-3	01/16/1997	ND	66	ND	ND	ND	ND	ND	140	---	---	---	---	---	---	ND	39.92	12.35	27.57	---	---
MW-3	08/01/1997	ND	68	ND	ND	ND	ND	ND	110	150	---	---	---	---	---	ND	39.92	14.95	24.97	---	---
MW-3	01/29/1998	ND	ND	ND	ND	ND	ND	ND	87	130	---	---	---	---	---	ND	39.92	12.48	27.44	---	---
MW-3	07/24/1998	ND	ND	ND	ND	ND	ND	ND	93	---	---	---	---	---	---	ND	39.92	13.95	25.97	---	---
MW-3	01/13/1999	ND	ND	ND	ND	ND	ND	ND	94.1	---	---	---	---	---	---	ND	39.92	15.56	24.36	---	---
MW-3	07/16/1999	ND	<50	<50	<0.5	0.6	<0.5	1.8	68.0	---	---	---	---	---	---	ND	39.92	15.05	24.87	---	0.9

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	Date	O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	Total Lead (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (mg/L)
MW-3	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	76	---	---	---	---	---	---	---	39.92	15.61	24.31	---	0.7
MW-3	01/26/2000	<0.050	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	39.92	---	---	---	---
MW-3	04/14/2000	---	---	<50	<0.5	<0.5	<0.5	<1	55	70	---	---	---	---	---	---	39.92	13.92	26.00	---	1.6
MW-3	07/31/2000	<0.500	<50	<50	<0.5	<0.5	<0.5	<1	48	43	---	---	---	---	---	0.004	39.92	15.02	24.90	---	3.0
MW-3	10/31/2000	---	---	<50	<0.5	<0.5	<0.5	<1.0	47	45	---	---	---	---	---	---	39.92	14.04	25.88	---	1.0
MW-3	01/04/2001	<0.500	<50 e	54	<0.5	<0.5	<0.5	<1.0	48	40	---	---	---	---	---	<0.050	39.92	14.89	25.03	---	0.3
MW-3	04/10/2001	---	---	<50	<0.5	<0.5	<0.5	<1.5	32	26	---	---	---	---	---	---	39.92	13.88	26.04	---	2.2
MW-3	07/20/2001	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	33	---	---	---	---	---	0.00253	39.92	15.31	24.61	---	1.6
MW-3	10/19/2001	---	---	<50	<0.50	<0.50	<0.50	1.3	---	34	---	---	---	---	---	---	39.92	16.19	23.73	---	0.5
MW-3	11/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.92	16.18	23.74	---	---
MW-3	11/14/2001	---	<50	<50	<0.50	<0.50	<0.50	<1.0	---	14	---	---	---	---	---	---	39.92	15.40	24.52	---	---
MW-3	01/10/2002	<1.0	<50	<50	<0.50	<0.50	<0.50	1.0	---	17	---	---	---	---	---	0.00121	39.92	13.42	26.50	---	2.0
MW-3	04/30/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	12	---	---	---	---	---	---	39.92	15.27	24.65	---	1.0
MW-3	07/17/2002	<5	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	15	---	---	---	---	---	<0.00100	39.92	16.22	23.70	---	3.0
MW-3	10/16/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	9.2	---	---	---	---	---	---	39.92	16.76	23.16	---	0.4
MW-3	01/08/2003	1.4 k	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	<0.00100	39.92	13.06	26.86	---	0.8
MW-3	04/16/2003	---	---	<50	<0.50	1.1	<0.50	1.2	---	5.2	---	---	---	---	---	---	39.92	13.25	26.67	---	0.8
MW-3	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	9.2	---	---	---	---	---	0.0012	39.92	15.36	24.56	---	1.6
MW-3	10/23/2003	ND	---	<50	<0.50	<0.50	<0.50	<1.0	---	11	---	---	---	---	---	---	39.92	16.04	23.88	---	0.6
MW-3	01/29/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	13	---	---	---	---	---	<0.001	39.92	14.08	25.84	---	0.9
MW-3 (D)	01/29/2004	---	<500 e	<50	<0.5	<0.5	<0.5	<1	---	14	---	---	---	---	---	---	39.92	---	---	---	---
MW-3	04/29/2004	---	---	<50	0.67	<1	<1	<1	---	3.4	---	---	---	---	---	---	39.92	14.79	25.13	---	0.5
MW-3	07/27/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	7.5	---	---	---	---	---	<0.001	39.92	15.84	24.08	---	0.1
MW-3 (D)	07/27/2004	---	<500 e	<50	<0.5	<0.5	<0.5	<1	---	6.8	---	---	---	---	---	---	39.92	---	---	---	---
MW-3	10/25/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	5.9	---	---	---	---	---	---	39.92	15.30	24.62	---	0.7
MW-3	01/25/2005	---	<500	<50	<0.5	<0.5	<0.5	<2	---	7.4	---	---	---	---	---	---	39.92	13.37	26.55	---	0.6/0.8/0.4
MW-3 (D)	01/25/2005	<2	<500	<50	<0.5	<0.5	<0.5	<2	---	7.4	---	---	---	---	---	0.00113	39.92	---	---	---	---
MW-3	04/28/2005	---	---	<100	<0.5	<0.5	<0.5	<0.5	---	13	---	---	---	---	---	---	39.92	13.04	26.88	---	1.0
MW-3	07/14/2005	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	7.4	---	---	---	---	---	0.0014	39.92	14.48	25.44	---	1.8
MW-3	11/01/2005	---	---	89	<0.50	<0.50	<0.50	<1.0	---	6.6	---	---	---	---	---	---	39.92	15.28	24.64	---	0.3
MW-3	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	3.2	<5.0	---	---	---	---	<0.0025	39.92	12.68	27.24	---	0.7
MW-3	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	14	<10	---	---	---	---	---	39.92	11.33	28.59	---	0.92
MW-3	09/27/2006	<4.7	64 g,t	<50	<0.50	<0.50	<0.50	<0.50	---	2.0	<20	---	---	---	---	<0.0005	39.92	13.35	26.57	---	0.3
MW-3	11/15/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	3.7	<20	---	---	---	---	---	39.92	13.78	26.14	---	0.3
MW-3	01/12/2007	<4.7	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	2.8	<5.0	---	---	---	---	0.0011	39.92	14.19	25.73	---	1.3/0.7
MW-3	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	4.0	<10	---	---	---	---	---	39.92	14.28	25.64	---	0.5/0.1
MW-3	07/06/2007	<1.0	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	5.8	<10	---	---	---	---	0.00151	39.92	14.68	25.24	---	0.1
MW-3	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	0.84 p	<10	---	---	---	---	---	39.92	14.76	25.16	---	0.13/0.12
MW-3	01/31/2008	<1.0	52 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	2.2	<10	---	---	---	---	<0.00100	39.92	12.08	27.84	---	0.59
MW-3	04/21/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.3	<10	---	---	---	---	---	39.92	14.13	25.79	---	0.1
MW-3	07/30/2008	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	3.7	<10	---	---	---	---	0.00178	39.92	15.35	24.57	---	0.39
MW-3	10/17/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.1	<10	---	---	---	---	---	39.92	15.83	24.09	---	0.85
MW-3	01/07/2009	<1.0	210 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	3.2	<10	---	---	---	---	0.00167	39.92	15.06	24.86	---	1.64
MW-3	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.92	14.02	25.90	---	0.26
MW-3	07/15/2009	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	2.7	<10	---	---	---	---	0.00142	39.92	15.06	24.86	---	0.06
MW-3	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.2	<10	---	---	---	---	---	39.92	14.65	25.27	---	0.05
MW-3	01/13/2010	1	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	2.2	<10	---	---	---	---	0.00194	39.92	14.46	25.46	---	0.31
MW-3	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.5	<10	---	---	---	---	---	39.92	11.18	28.74	---	0.09
MW-3	07/08/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	2.1	<10	---	---	---	---	<0.00100	39.92	14.17	25.75	---	1.18

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-3	11/09/2010	<1.0	52 e	<50	<0.50	<1.0	<1.0	<1.0	---	2.7	<10	---	---	---	---	0.00189	39.92	15.00	24.92	---	0.98
MW-3	01/25/2011	<5.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	2.0	<10	---	---	---	---	<0.0010	39.92	13.89	26.03	---	0.59
MW-3	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.6	<10	---	---	---	---	---	39.92	11.06	28.86	---	0.29
MW-3	**07/21/2011**	**<4.9**	**<49 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**2.1**	**<10**	**---**	**---**	**---**	**---**	**0.0013**	**39.92**	**13.75**	**26.17**	**---**	**0.24**
MW-3	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**2.1**	**<10**	**---**	**---**	**---**	**---**	**---**	**39.92**	**14.35**	**25.57**	**---**	**0.11/0.12**
MW-4	03/18/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	15.42	23.80	---	---
MW-4	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	16.74	22.48	Trace	---
MW-4	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	16.22	23.00	---	---
MW-4	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	16.47	22.75	---	---
MW-4	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	13.48	25.74	---	---
MW-4	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	15.57	23.65	---	---
MW-4	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	13.52	25.70	---	---
MW-4	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	15.04	24.18	---	---
MW-4	01/07/1983	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	12.90	26.32	---	---
MW-4	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.22	13.87	25.35	---	---
MW-4	01/13/1994	ND	6,600	1,500 g	8.3	ND	ND	ND	---	---	---	---	---	---	---	ND	39.94	14.15	25.79	---	---
MW-4	03/17/1994	ND	990	1,200	5.4	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	04/05/1994	ND	570	1,200	3.7	ND	ND	7.4	---	---	---	---	---	---	---	ND	39.94	14.00	25.94	---	---
MW-4 (D)	04/05/1994	ND	990	2,000	29	ND	1.9	2.4	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-4	07/05/1994	ND	810	1,100	8.8	ND	ND	ND	---	---	---	---	---	---	---	ND	39.94	14.24	25.70	---	---
MW-4	01/12/1995	ND	800	910	9.0	ND	ND	ND	---	---	---	---	---	---	---	ND	39.94	11.13	28.81	---	---
MW-4	07/05/1995	ND	1,800	1,300	36	ND	ND	ND	---	---	---	---	---	---	---	ND	39.94	13.10	26.84	---	---
MW-4	01/10/1996	1.2	940	670	25	ND	ND	ND	15	---	---	---	---	---	---	ND	39.94	11.95	27.99	---	---
MW-4	07/16/1996	ND	930	1,600	47	ND	ND	ND	110	---	---	---	---	---	---	0.007	39.94	12.70	27.24	---	---
MW-4	01/16/1997	ND	890	1,600	9.2	ND	2.6	2.2	54	---	---	---	---	---	---	ND	39.94	10.70	29.24	---	---
MW-4	08/01/1997	0.0019	1,300	1,800	34	5.8	ND	ND	53	ND	---	---	---	---	---	ND	39.94	13.35	26.59	---	---
MW-4	01/29/1998	ND	620	1,100	39	ND	ND	ND	ND	---	---	---	---	---	---	ND	39.94	10.75	29.19	---	---
MW-4	07/24/1998	ND	390	1,500	23	ND	ND	7.7	31	---	---	---	---	---	---	ND	39.94	12.45	27.49	---	---
MW-4	01/13/1999	2	531	1,890	12.5	ND	1.68	ND	45	---	---	---	---	---	---	ND	39.94	14.10	25.84	---	---
MW-4	07/16/1999	2	610 g	1,700	4.5	5.1	0.6	3.3	3	---	---	---	---	---	---	ND	39.94	14.45**	25.49	---	0.7
MW-4 (D)	07/16/1999	---	610 g	1,100	4.1	1.2	<0.5	2	4	---	---	---	---	---	---	---	39.94	14.45**	25.49	---	---
MW-4	01/14/2000	---	1,200	2,100	2.5	<1	2.1	3.2	26	---	---	---	---	---	---	---	39.94	15.07**	24.87	---	0.6
MW-4	01/26/2000	3.3	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	39.94	---	---	---	---
MW-4	07/31/2000	3.5	2,200	1,800	1.0	2.0	1.7	2.3	20	<0.5	---	---	---	---	---	0.002	39.94	13.84**	26.10	---	2.2
MW-4	01/04/2001	3.3	710 e	1,900	6.9	7.9	0.6	<1.0	11	<4	---	---	---	---	---	<0.050	39.94	14.31**	25.63	---	0.6
MW-4	07/20/2001	<1.0	1,700 e	1,400	0.85	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	0.00106	39.94	14.70**	25.24	---	0.5
MW-4	01/10/2002	<1.0	1,300 e	1,400	5.1	0.85	<0.50	1.7	---	<5.0	---	---	---	---	---	0.00109	39.94	11.61	25.24	---	1.8
MW-4 (D)	01/10/2002	---	1,200 e	1,500	5.3	0.77	<0.50	1.5	---	<5.0	---	---	---	---	---	---	39.94	---	---	---	---
MW-4	07/17/2002	<5	<600 e	1,200	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	<0.00100	39.94	14.70	25.24	---	0.8
MW-4 (D)	07/17/2002	---	<600 e	1,100	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.94	---	---	---	---
MW-4	10/16/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	15.19	24.75	---	---
MW-4	01/08/2003	1.4 k	1,900 e	1,400	4.1	0.68	<0.50	0.53	---	<5.0	---	---	---	---	---	<0.00100	39.94	10.41	29.53	---	0.7
MW-4	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	10.33	29.61	---	---
MW-4	07/10/2003	<1.0	1,200 e,g	1,600 g	0.62	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	---	<0.0010	39.94	13.71	26.23	---	0.1
MW-4	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	14.44	25.50	---	---
MW-4	01/29/2004	6	8,000 e	670	2.6	<2.5	<2.5	<5	---	30	---	---	---	---	---	0.0012	39.94	11.98	27.96	---	0.7
MW-4	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	13.19	26.75	---	---
MW-4	07/27/2004	3	1,200 e	1,400	<0.5	<0.5	<0.5	<1	---	<0.5	---	---	---	---	---	<0.001	39.94	14.12	25.82	---	0.1

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-4	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	13.18	26.76	---	---
MW-4	01/25/2005	<2	1,400	1,400	1.6	<0.5	<0.5	<2	---	<0.5	---	---	---	---	---	0.0011	39.94	11.28	28.66	---	0.3
MW-4	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	11.16	28.78	---	---
MW-4	07/14/2005	<2	400	1,400	<0.5	<0.5	<0.5	0.55	---	<0.5	---	---	---	---	---	<0.001	39.94	12.88	27.06	---	1.6
MW-4	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	13.31	26.63	---	---
MW-4	01/23/2006	<2.0	470 e,n	730	1.8	0.54	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	<0.0025	39.94	10.53	29.41	---	0.1
MW-4	09/27/2006	<4.8	4,000 g,t	870	<0.50	<0.50	<0.50	<0.50	---	<0.50	<20	---	---	---	---	0.75	39.94	12.72	27.22	---	1.70
MW-4	01/12/2007	<4.8	1,100 e	1,000	0.75	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	<0.0010	39.94	12.46	27.48	---	0.7
MW-4	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	12.35	27.59	---	---
MW-4	07/06/2007	<1.0	350 e	1,300 y	0.26 p	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.000255 p	39.94	13.42	26.52	---	0.02
MW-4	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.94	12.32	27.62	---	---
MW-4	01/31/2008	<1.0	1,200 e,g	1,100 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	<0.00100	39.94	9.73	30.21	---	0.34
MW-4	07/30/2008	1.2	700 e	1,500	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	<0.00100	39.94	13.75	26.19	---	1.48
MW-4	01/07/2009	7.5	11,000 e	2,000	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	<0.00100	39.94	13.49	26.45	---	1.52
MW-4	07/15/2009	1.6	2,800 e	1,700	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	<0.00100	39.94	13.59	26.35	---	0.04
MW-4	01/13/2010	2.5	3,000 e	2,000	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	<0.00100	39.94	12.69	27.25	---	0.37
MW-4	07/08/2010	<1.0	1,500 e	930	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	<0.00100	39.94	12.74	27.20	---	0.86
MW-4	01/25/2011	<5.0	1,600 e	1,200	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	<0.0010	39.94	12.29	27.65	---	0.74
MW-4	**07/21/2011**	**<4.9**	**11,000 e**	**2,000**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**<0.0010**	**39.94**	**12.20**	**27.74**	**---**	**0.17**
MW-4 (D)	**07/21/2011**	**---**	**15,000 e**	**1,800**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
MW-5	03/18/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	16.99	23.37	---	---
MW-5	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	18.35	22.01	---	---
MW-5	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	17.74	22.62	---	---
MW-5	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	18.08	22.28	---	---
MW-5	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	15.37	24.99	---	---
MW-5	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	17.05	23.31	---	---
MW-5	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	16.00	24.36	---	---
MW-5	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	16.62	23.74	---	---
MW-5	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	15.16	25.20	---	---
MW-5	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	15.53	24.83	---	---
MW-5	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.36	16.00	24.36	---	---
MW-5	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.36	15.70	24.66	---	---
MW-5 (D)	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-5	07/05/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	16.01	24.35	---	---
MW-5	01/12/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	13.65	26.71	---	---
MW-5	07/05/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	14.63	25.73	---	---
MW-5	01/10/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	14.95	25.41	---	---
MW-5	07/16/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	14.78	25.58	---	---
MW-5	01/16/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	12.90	27.46	---	---
MW-5	08/01/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	15.35	25.01	---	---
MW-5	01/29/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	12.86	27.50	---	---
MW-5	07/24/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	14.35	26.01	---	---
MW-5	01/13/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	15.87	24.49	---	---
MW-5	07/16/1999	---	---	56	<0.5	<0.5	<0.5	<0.5	<3	---	---	---	---	---	---	---	40.36	15.38	24.98	---	1.3
MW-5	10/22/1999	---	---	50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	15.99	24.37	---	0.9
MW-5	01/14/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	16.00	24.36	---	0.6
MW-5	03/23/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	13.67	26.69	---	2.7/2.4
MW-5	04/14/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	14.35	26.01	---	2.5

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	Date	O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	Total Lead (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (mg/L)
MW-5	05/01/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	14.52	25.84	---	0.8/1.2/3.8
MW-5	06/27/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	15.07	25.29	---	1.4/1.0/0.8
MW-5	07/31/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	15.35	25.01	---	2.0/2.7/2.3
MW-5	08/17/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	40.36	15.53	24.83	---	1.2
MW-5	09/21/2000	---	---	<50	<0.5	<0.5	<0.5	<1.0	<5	---	---	---	---	---	---	---	40.36	16.10	24.26	---	1.5/1.4
MW-5	10/31/2000	---	---	<50	<0.5	<0.5	<0.5	<1.0	<5	---	---	---	---	---	---	---	40.36	14.85	25.51	---	1.4
MW-5	11/20/2000	---	---	<50	<0.5	<0.5	<0.5	<1.0	5	4	---	---	---	---	---	---	40.36	15.63	24.73	---	2.6
MW-5	01/04/2001	---	---	<50	<0.5	<0.5	<0.5	<1.0	5	3	---	---	---	---	---	---	40.36	15.35	25.01	---	1.1
MW-5	04/10/2001	---	---	<50	<0.5	<0.5	<0.5	<1.5	11	9	---	---	---	---	---	---	40.36	14.51	25.85	---	1.8
MW-5	07/20/2001	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	13	---	---	---	---	---	---	40.36	16.10	24.26	---	1.8
MW-5	10/19/2001	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	20	---	---	---	---	---	---	40.36	16.90	23.46	---	0.3/1.9/0.3
MW-5	11/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.36	16.97	23.39	---	---
MW-5	11/14/2001	---	<50	<50	<0.50	<0.50	<0.50	<1.0	---	9.4	---	---	---	---	---	---	40.36	16.33	24.03	---	---
MW-5	01/10/2002	---	---	<50	<0.50	<0.50	<0.50	0.90	---	20	---	---	---	---	---	---	40.36	14.47	25.89	---	1.7
MW-5	04/30/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	17	---	---	---	---	---	---	40.36	15.97	24.39	---	1.1
MW-5	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	28	---	---	---	---	---	---	40.36	17.03	23.33	---	0.8/0.8/0.7
MW-5	10/16/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	14	---	---	---	---	---	---	40.36	17.58	22.78	---	0.4
MW-5	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	8.8	---	---	---	---	---	---	40.36	13.91	26.45	---	0.8/0.4
MW-5	04/16/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	---	40.36	14.32	26.04	---	0.9
MW-5	07/10/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	13	---	---	---	---	---	---	40.36	16.13	24.23	---	0.3/2.0
MW-5	10/23/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	13	---	---	---	---	---	---	40.36	16.77	23.59	---	0.7
MW-5	01/29/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	10	---	---	---	---	---	---	40.36	14.89	25.47	---	3.3
MW-5	04/29/2004	---	---	<50	<0.5	<1	<1	<1	---	8.2	---	---	---	---	---	---	40.36	15.57	24.79	---	1.2/2.2
MW-5	07/27/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	7.1	---	---	---	---	---	---	40.36	16.67	23.69	---	0.2
MW-5	10/25/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	10	---	---	---	---	---	---	40.36	15.93	24.43	---	0.8
MW-5	01/25/2005	---	---	<50	<0.5	<0.5	<0.5	<2	---	11	---	---	---	---	---	---	40.36	14.33	26.03	---	0.5
MW-5	04/28/2005	---	---	55	<0.5	<0.5	<0.5	<0.5	---	3.3	---	---	---	---	---	---	40.36	13.95	26.41	---	2.1
MW-5	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	4.4	---	---	---	---	---	---	40.36	15.25	25.11	---	2.3
MW-5	11/01/2005	---	---	77	<0.50	<0.50	<0.50	<1.0	---	4.6	---	---	---	---	---	---	40.36	16.05	24.31	---	0.3
MW-5	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	4.8	<5.0	---	---	---	---	---	40.36	13.73	26.63	---	0.6
MW-5	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	8.3	4.9 p	---	---	---	---	---	40.36	12.50	27.86	---	0.92
MW-5	09/27/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	1.3	<20	---	---	---	---	---	40.36	14.87	25.49	---	0.3
MW-5	11/15/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	4.3	<20	---	---	---	---	---	40.36	14.40	25.96	---	0.2
MW-5	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.4	<5.0	---	---	---	---	---	40.36	14.71	25.65	---	0.8
MW-5	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.5	<10	---	---	---	---	---	40.36	15.13	25.23	---	0.1
MW-5	07/06/2007	<1.0	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	6.2	<10	---	---	---	---	---	40.36	15.34	25.02	---	0.04
MW-5	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.7	<10	---	---	---	---	---	40.36	15.70	24.66	---	0.14
MW-5	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.7	<10	---	---	---	---	---	40.36	13.30	27.06	---	0.68
MW-5	04/21/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.6	<10	---	---	---	---	---	40.36	14.73	25.63	---	0.1
MW-5	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	5.9	<10	---	---	---	---	---	40.36	15.79	24.57	---	0.90
MW-5	10/17/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.6	<10	---	---	---	---	---	40.36	16.40	23.96	---	1.24
MW-5	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.6	<10	---	---	---	---	---	40.36	15.59	24.77	---	1.50
MW-5	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	40.36	14.49	25.87	---	0.23
MW-5	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.4	<10	---	---	---	---	---	40.36	15.55	24.81	---	0.04
MW-5	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.2	<10	---	---	---	---	---	40.36	15.25	25.11	---	1.46
MW-5	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.6	<10	---	---	---	---	---	40.36	15.04	25.32	---	1.11
MW-5	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.8	<10	---	---	---	---	---	40.36	12.12	28.24	---	0.08
MW-5	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	40.36	14.70	25.66	---	1.26
MW-5	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.3	<10	---	---	---	---	---	40.36	15.60	24.76	---	0.78

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-5	01/25/2011	---	---	110	<0.50	<0.50	<0.50	<1.0	---	2.0	<10	---	---	---	---	---	40.36	14.45	25.91	---	0.62
MW-5	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.0	<10	---	---	---	---	---	40.36	11.83	28.53	---	1.63/0.56
MW-5	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.9**	**<10**	**---**	**---**	**---**	**---**	**---**	**40.36**	**14.28**	**26.08**	**---**	**0.53/0.44**
MW-5	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.8**	**<10**	**---**	**---**	**---**	**---**	**---**	**40.36**	**14.99**	**25.37**	**---**	**0.23**
MW-6	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	16.57	22.37	---	---
MW-6	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	16.39	22.55	---	---
MW-6	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	16.29	22.65	---	---
MW-6	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.65	25.29	---	---
MW-6	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	15.15	23.79	---	---
MW-6	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	14.16	24.78	---	---
MW-6	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	14.74	24.20	---	---
MW-6	01/07/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	---	---	---	---
MW-6	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.59	25.35	---	---
MW-6	01/13/1994	ND	120 g	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.94	14.14	24.80	---	---
MW-6	04/05/1994	ND	78	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.94	13.60	25.34	---	---
MW-6	07/05/1994	ND	56	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.94	13.85	25.09	---	---
MW-6	01/12/1995	ND	80	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.011	38.94	10.88	28.06	---	---
MW-6	07/05/1995	ND	160	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.94	12.74	26.20	---	---
MW-6 (D)	07/05/1995	ND	150	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-6	01/10/1996	ND	83	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	13.20	25.74	---	---
MW-6	07/16/1996	ND	140	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	12.83	26.11	---	---
MW-6	01/16/1997	ND	67	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	11.05	27.89	---	---
MW-6	08/01/1997	ND	98	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	13.45	25.49	---	---
MW-6	01/29/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	10.95	27.99	---	---
MW-6	07/24/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	12.45	26.49	---	---
MW-6	01/13/1999	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.94	14.10	24.84	---	---
MW-6	07/16/1999	ND	<50	<50	<0.5	<0.5	<0.5	<0.5	<3	---	---	---	---	---	---	ND	38.94	13.48	25.46	---	1.5
MW-6	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	38.94	14.23	24.71	---	0.9
MW-6	01/26/2000	<0.050	<50	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	<0.050	38.94	14.23	24.71	---	0.9
MW-6	03/23/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	11.91	27.03	---	---
MW-6	04/14/2000	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	---	---	---	---
MW-6	05/01/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	12.72	26.22	---	---
MW-6	06/27/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.22	25.72	---	---
MW-6	07/31/2000	0.5	<50	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	0.011	38.94	13.43	25.51	---	3.0
MW-6	08/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.63	25.31	---	1.5
MW-6	09/21/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	14.04	24.90	---	1.2
MW-6	10/31/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	12.77	26.17	---	---
MW-6	11/20/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.64	25.30	---	0.4
MW-6	01/04/2001	<0.500	<50 e	<50	<0.5	<0.5	<0.5	<1.0	<5	---	---	---	---	---	---	<0.050	38.94	13.55	25.39	---	1.7
MW-6	07/20/2001	<1.0	<50 e	160	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	0.00125	38.94	14.04	24.90	---	1.9
MW-6	01/10/2002	<1.0	<50 e	<50	<0.50	<0.50	<0.50	0.97	---	<5.0	---	---	---	---	---	0.0019	38.94	12.75	26.19	---	2.3
MW-6	07/17/2002	<5	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	<0.00100	38.94	15.14	23.80	---	1.6
MW-6	10/16/2002	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	---	---	---	---
MW-6	01/08/2003	Unable to locate		---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	---	---	---	---
MW-6	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	12.46	26.48	---	---
MW-6	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	2.4	---	---	---	---	---	0.0023	38.94	14.05	24.89	---	1.0
MW-6	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	14.67	24.27	---	---
MW-6	01/29/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	3.8	---	---	---	---	---	<0.001	38.94	12.88	26.06	---	1.0

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-6	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.47	25.47	---	---
MW-6	07/27/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	2.9	---	---	---	---	---	<0.001	38.94	14.73	24.21	---	0.2
MW-6	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	14.16	24.78	---	---
MW-6	01/25/2005	<2	<500	<50	<0.5	<0.5	<0.5	<2	---	3.3	---	---	---	---	---	0.0108	38.94	12.51	26.43	---	0.5
MW-6	04/28/2005	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	---	---	---	---
MW-6	07/14/2005	<2	<50	<50	<0.5	<0.5	<0.5	<0.5	---	0.53	---	---	---	---	---	0.00111	38.94	13.15	25.79	---	2.0
MW-6	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.90	25.04	---	---
MW-6	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	0.83	<5.0	---	---	---	---	0.0055	38.94	11.87	27.07	---	2.1
MW-6	09/27/2006	<4.8	<47 t	<50	<0.50	<0.50	<0.50	<0.50	---	1.8	<20	---	---	---	---	<0.0005	38.94	12.72	26.22	---	0.8
MW-6	01/12/2007	<4.8	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	0.013	38.94	12.56	26.38	---	0.9
MW-6	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	12.90	26.04	---	---
MW-6	07/06/2007	<1.0	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	1.0 p	<10	---	---	---	---	0.0039	38.94	13.32	25.62	---	0.1
MW-6	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.94	13.66	25.28	---	---
MW-6	01/31/2008	<1.0	110 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.9	<10	---	---	---	---	0.0202	38.94	11.20	27.74	---	0.92
MW-6	07/30/2008	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	3.7	<10	---	---	---	---	0.00145	38.94	13.73	25.21	---	0.09
MW-6	01/07/2009	<1.0	200 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	2.3	<10	---	---	---	---	0.019	38.94	13.69	25.25	---	2.10
MW-6	07/15/2009	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	2.9	<10	---	---	---	---	0.0309	38.94	13.53	25.41	---	0.10
MW-6	01/13/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	3.8	<10	---	---	---	---	0.00612	38.94	13.42	25.52	---	0.78
MW-6	07/08/2010	<1.0	120 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00289	38.94	12.60	26.34	---	1.26
MW-6	01/25/2011	<5.0	49 e	<50	<0.50	<0.50	<0.50	<1.0	---	3.2	<10	---	---	---	---	0.0024	38.94	12.31	26.63	---	0.94
MW-6	**07/21/2011**	**<5.0**	**<50 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**3.2**	**<10**	**---**	**---**	**---**	**---**	**0.0038**	**38.94**	**12.20**	**26.74**	**---**	**0.17**
MW-7	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	15.66	23.07	---	---
MW-7	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	15.70	23.03	---	---
MW-7	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	15.32	23.41	---	---
MW-7	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.72	26.01	---	---
MW-7	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	14.52	24.21	---	---
MW-7	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	13.29	25.44	---	---
MW-7	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	13.70	25.03	---	---
MW-7	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.55	26.18	---	---
MW-7	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.49	26.24	---	---
MW-7	01/13/1994	ND	3,500	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.73	13.13	25.60	---	---
MW-7	03/17/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-7	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.73	12.65	26.08	---	---
MW-7 (D)	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.007	---	---	---	---	---
MW-7	07/05/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.72	26.01	---	---
MW-7	01/12/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	38.73	11.41	27.32	---	---
MW-7	07/05/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	11.62	27.11	---	---
MW-7	01/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.73	12.15	26.58	---	---
MW-7	07/16/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	11.70	27.03	---	---
MW-7	01/16/1997	ND	51	ND	ND	ND	ND	ND	190	---	---	---	---	---	---	ND	38.73	10.10	28.63	---	---
MW-7	08/01/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.30	26.43	---	---
MW-7	01/29/1998	ND	ND	ND	ND	ND	ND	ND	230	330	---	---	---	---	---	ND	38.73	10.35	28.38	---	---
MW-7	07/24/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	11.35	27.38	---	---
MW-7	01/13/1999	ND	ND	ND	ND	ND	ND	ND	407	---	---	---	---	---	---	ND	38.73	12.95	25.78	---	---
MW-7	07/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.40	26.33	---	1.2
MW-7	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	220	---	---	---	---	---	---	---	38.73	13.15	25.58	---	1.1
MW-7	01/26/2000	<0.050	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	38.73	---	---	---	---
MW-7	07/31/2000	0.6	<50	<50	<0.5	<0.5	<0.5	<1	180	140	---	---	---	---	---	0.006	38.73	12.28	26.45	---	2.1

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-7	01/04/2001	<0.500	<50 e	160	<0.5	<0.5	<0.5	<1.0	220	250	---	---	---	---	---	<0.050	38.73	12.17	26.56	---	0.9
MW-7 (D)	01/04/2001	---	<50 e	160	<0.5	<0.5	<0.5	<1.0	210	220	---	---	---	---	---	---	38.73	---	---	---	---
MW-7	07/20/2001	<1.0	<50 e	<200	<2.0	<2.0	<2.0	<2.0	---	730	---	---	---	---	---	0.00156	38.73	12.57	26.16	---	1.1
MW-7	01/10/2002	<1.0	<50 e	<100	<1.0	<1.0	<1.0	<1.0	---	580	---	---	---	---	---	0.0021	38.73	11.58	27.15	---	2.1
MW-7	07/17/2002	<5	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	330	---	---	---	---	---	<0.00100	38.73	13.55	25.18	---	0.6
MW-7	10/16/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	14.05	24.68	---	---
MW-7	01/08/2003	1.4 k	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	37	---	---	---	---	---	0.00273	38.73	11.38	27.35	---	1.6
MW-7 (D)	01/08/2003	---	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	34	---	---	---	---	---	---	38.73	---	---	---	---
MW-7	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	11.56	27.17	---	---
MW-7	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	83	---	---	---	---	---	0.0018	38.73	12.63	26.10	---	0.1
MW-7	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	13.29	25.44	---	---
MW-7	01/29/2004	<2.0	<500 e	<50	<0.5	<0.5	<0.5	<1	---	7.8	---	---	---	---	---	<0.001	38.73	11.27	27.46	---	1.3
MW-7	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.15	26.58	---	---
MW-7	07/27/2004	<2.0	<500 e	58	<0.5	<0.5	<0.5	<1	---	56	---	---	---	---	---	<0.001	38.73	13.08	25.65	---	0.3
MW-7	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.90	25.83	---	---
MW-7	01/25/2005	<2	<500	<50	<0.5	<0.5	<0.5	<2	---	15	---	---	---	---	---	0.00197	38.73	11.12	27.61	---	1.4
MW-7	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	10.07	28.66	---	---
MW-7	07/14/2005	<2	<50	<50	<0.5	<0.5	<0.5	<0.5	---	1.4	---	---	---	---	---	<0.001	38.73	11.60	27.13	---	2.3
MW-7	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.25	26.48	---	---
MW-7	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	1.3	<5.0	---	---	---	---	0.0041	38.73	10.23	28.50	---	1.3
MW-7	09/27/2006	<4.8	81 g,t	<50	<0.50	<0.50	<0.50	<0.50	---	0.53	<20	---	---	---	---	<0.0005	38.73	11.56	27.17	---	1.89
MW-7	01/12/2007	<4.8	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	1.1	<5.0	---	---	---	---	0.0028	38.73	11.65	27.08	---	2.0
MW-7	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	11.60	27.13	---	---
MW-7	07/06/2007	<1.0	120 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	4.1	<10	---	---	---	---	0.000840 p	38.73	12.32	26.41	---	1.40
MW-7	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.73	12.39	26.34	---	---
MW-7	01/31/2008	<1.0	590 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	1.1	<10	---	---	---	---	0.00295	38.73	11.20	27.53	---	2.78
MW-7	07/30/2008	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	1.6	<10	---	---	---	---	0.00114	38.73	12.77	25.96	---	1.29
MW-7	01/07/2009	<1.0	67 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	1.9	<10	---	---	---	---	0.0012	38.73	12.43	26.30	---	0.23
MW-7	07/15/2009	<1.0	72 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00192	38.73	12.51	26.22	---	2.47
MW-7	01/13/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	0.00114	38.73	12.26	26.47	---	0.68
MW-7	07/08/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	1.9	<10	---	---	---	---	<0.00100	38.73	11.61	27.12	---	0.51
MW-7	01/25/2011	<5.0	<47 e	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	<0.0010	38.73	11.37	27.36	---	1.16
MW-7	**07/21/2011**	**<4.7**	**<48 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.4**	**<10**	**---**	**---**	**---**	**---**	**<0.0010**	**38.73**	**11.29**	**27.44**	**---**	**0.91**
MW-7A	03/17/1994	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	03/18/1988	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	16.38	23.68	---	---
MW-8	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	17.77	22.29	---	---
MW-8	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	17.16	22.90	---	---
MW-8	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	17.44	22.62	---	---
MW-8	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	14.55	25.51	---	---
MW-8	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	16.40	23.66	---	---
MW-8	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	15.44	24.62	---	---
MW-8	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	15.94	24.12	---	---
MW-8	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	14.27	25.79	---	---
MW-8	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40.06	14.74	25.32	---	---
MW-8	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.06	15.33	24.73	---	---
MW-8	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.06	14.72	25.34	---	---
MW-8	07/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.06	15.23	24.83	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	Date	O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	Total Lead (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)	DO Reading (mg/L)
MW-8	01/12/1995	ND	ND	ND	1.7	ND	ND	ND	---	---	---	---	---	---	---	ND	40.06	12.39	27.67	---	---
MW-8	07/05/1995	ND	54	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	40.06	13.87	26.19	---	---
MW-8	01/10/1996	ND	ND	ND	2.2	ND	ND	ND	ND	---	---	---	---	---	---	ND	40.06	14.15	25.91	---	---
MW-8	07/16/1996	ND	86	ND	0.96	ND	0.54	ND	20	---	---	---	---	---	---	ND	40.06	14.00	26.06	---	---
MW-8 (D)	07/16/1996	ND	110	ND	ND	ND	ND	ND	17	---	---	---	---	---	---	ND	---	---	---	---	---
MW-8	01/16/1997	ND	69	ND	1.6	ND	ND	ND	26	---	---	---	---	---	---	ND	40.06	12.20	27.86	---	---
MW-8 (D)	01/16/1997	0.093	---	ND	1.6	ND	0.7	ND	27	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	08/01/1997	ND	92	ND	ND	ND	ND	ND	44	57	---	---	---	---	---	ND	40.06	14.60	25.46	---	---
MW-8	01/29/1998	ND	ND	ND	ND	ND	ND	ND	25	32	---	---	---	---	---	ND	40.06	11.60	28.46	---	---
MW-8	07/24/1998	ND	ND	ND	ND	ND	ND	ND	960	---	---	---	---	---	---	ND	40.06	13.50	26.56	---	---
MW-8 (D)	07/24/1998	---	ND	ND	ND	ND	ND	ND	1,000	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	01/13/1999	ND	ND	ND	ND	ND	ND	ND	1,250	---	---	---	---	---	---	ND	40.06	15.15	24.91	---	---
MW-8	07/16/1999	0.5	<50	<50	<0.5	<0.5	<0.5	<0.5	11,000	---	---	---	---	---	---	ND	40.06	14.59	25.47	---	1.0
MW-8	10/22/1999	---	---	63	0.8	1.0	0.9	2.2	8,200	12,000	---	---	---	---	---	---	40.06	15.26	24.80	---	1.7/1.2
MW-8	01/14/2000	---	94	570	1.1	1.0	4.5	60	15,000	16,000	---	---	---	---	---	---	40.06	15.32	24.74	---	0.7
MW-8	01/26/2000	3	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	40.06	---	---	---	---
MW-8	03/23/2000	---	---	1,500	83	1.7	130	63	5,900	5,600	---	---	---	---	---	---	40.06	12.89	27.17	---	0.9
MW-8	04/14/2000	---	---	1,200	35	1.3	84	11	6,200	5,800	---	---	---	---	---	---	40.06	13.81	26.25	---	1.4
MW-8	05/01/2000	---	---	160	2.3	0.8	3.4	1.9	5,500	6,400	---	---	---	---	---	---	40.06	13.98	26.08	---	0.2
MW-8	06/27/2000	---	---	610	7.9	0.8	27	1.6	4,500	3,500	---	---	---	---	---	---	40.06	14.43	25.63	---	1.0
MW-8	07/31/2000	1.2	<50	410	3.4	1.2	14	1.5	3,000	2,700	---	---	---	---	---	<0.002	40.06	14.68	25.38	---	2.0
MW-8 (D)	07/31/2000	---	<50	360	2.8	0.6	12	<1	2,900	2,600	---	---	---	---	---	---	40.06	---	---	---	---
MW-8	08/17/2000	---	---	67	0.9	<0.5	1.3	<1	2,000	2,900	---	---	---	---	---	---	40.06	14.83	25.23	---	0.4
MW-8	09/21/2000	---	---	96	2.2	0.8	1.6	<1.0	2,000	2,000	---	---	---	---	---	---	40.06	15.22	24.84	---	1.3
MW-8	10/31/2000	---	---	380	7.7	2.7	7.2	5.8	1,500	1,400	---	---	---	---	---	---	40.06	14.21	25.85	---	1.0
MW-8	11/20/2000	---	---	99	1.4	1.4	1.3	<1.0	1,400	1,200	---	---	---	---	---	---	40.06	14.87	25.19	---	2.8/1.4
MW-8	01/04/2001	3.3	<50 e	580	0.9	1.2	1.5	<1.0	700	870	---	---	---	---	---	<0.050	40.06	14.75	25.31	---	0.4
MW-8	04/10/2001	---	---	530	0.6	0.6	0.7	<1.5	630	640	---	---	---	---	---	---	40.06	13.84	26.22	---	2.2
MW-8	07/20/2001	<1.0	<50 e	58	<0.50	<0.50	<0.50	<0.50	---	310	---	---	---	---	---	0.00164	40.06	15.21	24.85	---	0.7
MW-8	10/19/2001	---	---	87	0.51	<0.50	<0.50	1.1	---	340	---	---	---	---	---	---	40.06	15.99	24.07	---	0.3
MW-8	01/10/2002	<1.0	<50 e	80	1.4	0.50	0.52	1.4	---	240	---	---	---	---	---	0.00104	40.06	14.20	25.86	---	1.9/1.5
MW-8	04/30/2002	---	---	79	<0.50	<0.50	<0.50	<0.50	---	190	---	---	---	---	---	---	40.06	15.08	24.98	---	0.6
MW-8	07/17/2002	<5	<50 e	110	<0.50	<0.50	<0.50	1.0	---	250	---	---	---	---	---	<0.00100	40.06	16.47	23.59	---	0.5
MW-8	10/16/2002	---	---	52	<0.50	<0.50	<0.50	<0.50	---	270	---	---	---	---	---	---	40.06	16.93	23.13	---	0.6
MW-8	01/08/2003	1.5 k	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	60	---	---	---	---	---	<0.00100	40.06	13.75	26.31	---	3.2
MW-8	04/16/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	26	---	---	---	---	---	---	40.06	13.94	26.12	---	1.0
MW-8	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	150	---	---	---	---	---	<0.0010	40.06	15.22	24.84	---	0.1
MW-8	10/23/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	89	---	---	---	---	---	---	40.06	15.88	24.18	---	0.53
MW-8	01/29/2004	<2.0	<500 e	81	0.51	<0.5	<0.5	<1	---	47	---	---	---	---	---	0.00174	40.06	14.13	25.93	---	2.6
MW-8	04/29/2004	---	---	<50	<0.5	<1	<1	<1	---	5.5	---	---	---	---	---	---	40.06	14.68	25.38	---	0.9
MW-8	07/27/2004	<2.0	<500 e	77	<0.5	<0.5	<0.5	<1	---	27	---	---	---	---	---	<0.001	40.06	15.94	24.12	---	0.2
MW-8	10/25/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	18	---	---	---	---	---	---	40.06	15.45	24.61	---	1.4
MW-8	01/25/2005	<2	<500	<50	<0.5	<0.5	<0.5	<2	---	6	---	---	---	---	---	0.00162	40.06	13.89	26.17	---	0.5
MW-8	04/28/2005	---	---	53	<0.5	<0.5	<0.5	<0.5	---	1.2	---	---	---	---	---	---	40.06	13.12	26.94	---	1.9
MW-8	07/14/2005	<2	<50	<50	<0.5	<0.5	<0.5	<0.5	---	12	---	---	---	---	---	<0.001	40.06	14.55	25.51	---	2.2
MW-8	11/01/2005	---	---	100	<0.50	<0.50	<0.50	<1.0	---	7.9	---	---	---	---	---	---	40.06	15.28	24.78	---	0.3
MW-8	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	1.6	<5.0	---	---	---	---	<0.0025	40.06	13.33	26.73	---	3.1
MW-8 (D)	01/23/2006	---	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	2.2	<5.0	---	---	---	---	---	40.06	---	---	---	---
MW-8	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.1	<10	---	---	---	---	---	40.06	12.00	28.06	---	0.41

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-8	09/27/2006	<4.8	50 g,t	<50	<0.50	<0.50	<0.50	<0.50	---	4.9	<20	---	---	---	---	<0.0005	40.06	14.10	25.96	---	0.2
MW-8	11/15/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	4.0	25	---	---	---	---	---	40.06	13.58	26.48	---	0.3
MW-8	01/12/2007	<4.7	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	3.2	31	---	---	---	---	0.001	40.06	13.98	26.08	---	1.4
MW-8	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	1.3	<10	---	---	---	---	---	40.06	14.35	25.71	---	0.2
MW-8	07/06/2007	<1.0	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	7.3	180	---	---	---	---	0.000827 p	40.06	14.65	25.41	---	0.04
MW-8	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.6	96	---	---	---	---	---	40.06	15.05	25.01	---	0.1
MW-8	01/31/2008	<1.0	62 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	9.9	830	---	---	---	---	<0.00100	40.06	12.55	27.51	---	0.82
MW-8	04/21/2008	---	---	140	<0.50	<1.0	<1.0	<1.0	---	12	1800	---	---	---	---	---	40.06	14.02	26.04	---	0.2
MW-8	07/30/2008	<1.0	<50 e	180	<1.0	<2.0	<2.0	<2.0	---	14	2,000	---	---	---	---	<0.00100	40.06	15.13	24.93	---	0.28
MW-8	10/17/2008	---	---	150	<1.0	<2.0	<2.0	<2.0	---	13	2,500	---	---	---	---	---	40.06	15.77	24.29	---	1.16
MW-8	01/07/2009	<1.0	140 e,g	140	<0.50	<1.0	<1.0	<1.0	---	15	3,300	---	---	---	---	0.00197	40.06	14.91	25.15	---	1.64
MW-8	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	390	---	---	---	---	---	40.06	13.74	26.32	---	0.18
MW-8	07/15/2009	<1.0	110 e	53	<0.50	<1.0	<1.0	<1.0	---	4.6	2,000	---	---	---	---	<0.00100	40.06	14.89	25.17	---	0.99
MW-8	10/30/2009	---	---	770	<2.5	<5.0	<5.0	<5.0	---	15	14,000	---	---	---	---	---	40.06	14.62	25.44	---	0.11
MW-8	01/13/2010	<1.0	<50 e	880	<1.0	<2.0	<2.0	<2.0	---	23	16,000	---	---	---	---	<0.00100	40.06	14.12	25.94	---	1.20
MW-8	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	790	---	---	---	---	---	40.06	11.41	28.65	---	0.22
MW-8	07/08/2010	<1.0	<50 e	150	<0.50	<1.0	<1.0	<1.0	---	5.0	5,900	---	---	---	---	<0.00100	40.06	13.98	26.08	---	0.97
MW-8	11/09/2010	<1.0	<50 e	96	<0.50	<1.0	<1.0	<1.0	---	3.6	3,700	---	---	---	---	<0.00100	40.06	14.85	25.21	---	0.79
MW-8 (D)	11/09/2010	---	57 e	95	<0.50	<1.0	<1.0	<1.0	---	3.5	3,300	---	---	---	---	---	40.06	---	---	---	---
MW-8	01/25/2011	<5.0	<49 e	<500	<5.0	<5.0	<5.0	<10	---	13	8,800	---	---	---	---	<0.0010	40.06	13.72	26.34	---	1.54
MW-8	04/06/2011	---	---	<100	<1.0	<1.0	<1.0	<2.0	---	4.4	1,700	---	---	---	---	---	40.06	11.25	28.81	---	1.16
MW-8	**07/21/2011**	**<4.9**	**<52 e**	**<1,000**	**<10**	**<10**	**<10**	**<20**	**---**	**<20**	**11,000**	**---**	**---**	**---**	**---**	**<0.0010**	**40.06**	**13.51**	**26.55**	**---**	**0.49**
MW-8	**10/11/2011**	**---**	**---**	**<1,000**	**<10**	**<10**	**<10**	**<20**	**---**	**<20**	**14,000**	**---**	**---**	**---**	**---**	**---**	**40.06**	**14.18**	**25.88**	**---**	**0.35**
MW-9	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	17.77	21.64	---	---
MW-9	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	17.16	22.25	---	---
MW-9	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	17.44	21.97	---	---
MW-9	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.85	25.56	---	---
MW-9	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.85	25.56	---	---
MW-9	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.48	24.93	---	---
MW-9	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.81	24.60	---	---
MW-9	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.48	25.93	---	---
MW-9	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.62	25.79	---	---
MW-9	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	39.41	14.23	25.18	---	---
MW-9	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	39.41	13.79	25.62	---	---
MW-9	07/05/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.10	25.31	---	---
MW-9	01/12/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	11.78	27.63	---	---
MW-9	07/05/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	12.75	26.66	---	---
MW-9	01/10/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.35	26.06	---	---
MW-9	07/16/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	12.93	26.48	---	---
MW-9	01/16/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	11.35	28.06	---	---
MW-9	08/01/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.45	25.96	---	---
MW-9	01/29/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	11.13	28.28	---	---
MW-9	07/24/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	12.53	26.88	---	---
MW-9	01/13/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.17	25.24	---	---
MW-9	07/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.54	25.87	---	3.1
MW-9	01/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.22	25.19	---	0.8
MW-9	03/23/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	11.71	27.70	---	---
MW-9	04/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	12.32	27.09	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-9	05/01/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	12.53	26.88	---	---
MW-9	06/27/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.08	26.33	---	---
MW-9	07/31/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	39.41	13.34	26.07	---	2.6
MW-9	08/17/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.51	25.90	---	1.5
MW-9	09/21/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.72	25.69	---	4.3
MW-9	11/20/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.37	26.04	---	2.9
MW-9	01/04/2001	---	---	<50	<0.5	<0.5	<0.5	<1.0	6	6	---	---	---	---	---	---	39.41	13.38	26.03	---	1.9
MW-9	07/20/2001	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	14	---	---	---	---	---	---	39.41	13.72	25.69	---	0.8
MW-9	01/10/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	14	---	---	---	---	---	---	39.41	12.89	26.52	---	2.0
MW-9	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	18	---	---	---	---	---	---	39.41	14.74	24.67	---	0.6
MW-9	10/16/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	15.31	24.10	---	---
MW-9	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.41	12.75	26.66	---	2.47
MW-9	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	12.78	26.63	---	---
MW-9	07/10/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	0.96	---	---	---	---	---	---	39.41	13.75	25.66	---	1.7
MW-9	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.54	24.87	---	---
MW-9	01/29/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	6.5	---	---	---	---	---	---	39.41	12.86	26.55	---	2.7
MW-9	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.31	26.10	---	---
MW-9	07/27/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	8	---	---	---	---	---	---	39.41	14.36	25.05	---	0.7
MW-9	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	14.18	25.23	---	---
MW-9	01/25/2005	---	---	<50	<0.5	<0.5	<0.5	<2	---	1.6	---	---	---	---	---	---	39.41	12.50	26.91	---	0.6
MW-9	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	11.49	27.92	---	---
MW-9	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	0.75	---	---	---	---	---	---	39.41	12.95	26.46	---	3.8
MW-9	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.63	25.78	---	---
MW-9	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	---	39.41	11.83	27.58	---	2.0
MW-9	09/27/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	1.6	<20	---	---	---	---	---	39.41	13.03	26.38	---	2.61
MW-9	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	1.7	<5.0	---	---	---	---	---	39.41	12.95	26.46	---	0.31
MW-9	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.00	26.41	---	---
MW-9	07/06/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	5.1	<10	---	---	---	---	---	39.41	13.69	25.72	---	1.43
MW-9	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.41	13.72	25.69	---	---
MW-9	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.41	12.31	27.10	---	3.55
MW-9	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.41	14.02	25.39	---	0.21
MW-9	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	7.7	<10	---	---	---	---	---	39.41	13.83	25.58	---	0.10
MW-9	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.41	13.92	25.49	---	2.76
MW-9	01/13/2010	---	---	<50	0.80	<1.0	<1.0	<1.0	---	1.9	15	---	---	---	---	---	39.41	13.40	26.01	---	1.29
MW-9	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.41	12.99	26.42	---	0.42
MW-9	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	39.41	12.68	26.73	---	2.04
MW-9	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**39.41**	**12.56**	**26.85**	**---**	**0.63**
MW-10	11/22/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	17.52	21.57	---	---
MW-10	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	17.77	21.32	Trace	---
MW-10	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	17.16	21.93	---	---
MW-10	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	16.33	22.76	---	---
MW-10	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	13.85	25.24	Trace	---
MW-10	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	15.10	23.99	---	---
MW-10	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	14.47	24.62	---	---
MW-10	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	14.84	24.25	---	---
MW-10	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	12.96	26.13	---	---
MW-10	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	13.71	25.38	Sheen	---
MW-10	01/13/1994	ND	7,600 g	20,000	4,200	84	740	810	---	---	---	---	---	---	---	ND	39.09	14.28	24.81	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-10	03/17/1994	ND	550	2,200	490	5.2	120	120	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-10	04/05/1994	ND	390	1,000	240	ND	44	44	---	---	---	---	---	---	---	ND	39.09	13.83	25.26	---	---
MW-10 (D)	04/05/1994	ND	570	1,200	360	4.8	120	130	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-10	07/05/1994	ND	100	2,500	470	ND	110	110	---	---	---	---	---	---	---	0.003	39.09	14.15	24.94	---	---
MW-10	01/12/1995	ND	280	3,500	930	ND	140	180	---	---	---	---	---	---	---	ND	39.09	11.38	27.71	---	---
MW-10	07/05/1995	ND	540	1,800	460	ND	41	47	---	---	---	---	---	---	---	ND	39.09	12.89	26.20	---	---
MW-10	01/10/1996	ND	1,000	6,900	1,800	23	230	240	250	---	---	---	---	---	---	ND	39.09	14.05	25.04	---	---
MW-10 (D)	01/10/1996	---	1,500	9,500	2,200	31	320	410	590	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	07/16/1996	ND	260	1,800	230	ND	72	100	410	---	---	---	---	---	---	ND	39.09	12.00	27.09	---	---
MW-10	01/16/1997	ND	1,000	680	280	2.6	24	20	190	---	---	---	---	---	---	ND	39.09	12.70	26.39	---	---
MW-10	08/01/1997	ND	610	ND	520	77	37	30	13,000	9,600	---	---	---	---	---	ND	39.09	14.50	24.59	---	---
MW-10 (D)	08/01/1997	---	280	2,500	540	90	41	38	12,000	16,000	---	---	---	---	---	---	---	---	---	---	---
MW-10	01/29/1998	4.7	480	3,200	900	60	92	210	120,000	170,00	---	---	---	---	---	ND	39.09	12.55	26.54	---	---
MW-10	07/24/1998	ND	240	5,200	1,200	ND	85	130	210,000	200,000	---	---	---	---	---	ND	39.09	14.05	25.04	---	---
MW-10	08/19/1998	ND	ND	ND	ND	ND	ND	ND	120,000	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	01/13/1999	8.07	4,690	ND	ND	729	ND	ND	119,000	143,000	---	---	---	---	---	ND	39.09	15.80	23.29	---	---
MW-10	07/16/1999	100	24,000 g	97,000	2,600	8,900	2,000	12,000	160,000	250,000	---	---	---	---	---	ND	39.09	15.27	23.82	---	2.0/1.6d
MW-10	10/22/1999	---	---	220,000	10,000	39,000	4,300	23,000	200,000	300,000	---	---	---	---	---	---	39.09	15.79	23.30	---	1.5
MW-10	01/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	17.56	22.09	0.70	---
MW-10	03/23/2000	---	---	70,000	1,300	4,400	2,200	15,000	99,000	93,000	---	---	---	---	---	---	39.09	14.92	24.17	---	1.1
MW-10	04/14/2000	---	---	53,000	2,000	4,900	1,200	7,100	71,000	69,000	---	---	---	---	---	---	39.09	15.47	23.62	---	1.1
MW-10	05/01/2000	---	---	5,000	260	260	130	600	30,000	58,000	---	---	---	---	---	---	39.09	15.43	23.66	---	2.0
MW-10	06/27/2000	---	---	38,000	1,700	3,200	1,300	4,900	69,000	54,000	---	---	---	---	---	---	39.09	16.25	22.84	---	0.8
MW-10	07/31/2000	92	40,000	23,000	840	1,900	620	3,000	45,000	47,000	---	---	---	---	---	0.005	39.09	16.23	22.86	---	1.9
MW-10	08/17/2000	---	---	74,000	2,600	11,000	2,700	14,000	61,000	78,000	---	---	---	---	---	---	39.09	16.35	22.74	---	0.5
MW-10	09/21/2000	---	---	580,000	3,300	20,000	92,000	45,000	85,000	76,000	---	---	---	---	---	---	39.09	16.72	22.37	---	0.9
MW-10	10/31/2000	---	---	69,000	1,400	4,400	1,000	8,400	58,000	57,000	---	---	---	---	---	---	39.09	15.75	23.34	---	1.4/1.4
MW-10	11/20/2000	---	---	56,000	1,600	5,000	2,100	9,400	63,000	46,000	---	---	---	---	---	---	39.09	16.40	22.69	---	0.3
MW-10	01/04/2001	48	620 e	61,000	1,300	3,200	1,100	4,500	60,000	65,000	---	---	---	---	---	<0.050	39.09	16.32	22.77	---	0.3
MW-10	04/10/2001	---	---	27,000	140	140	70	210	37,000	37,000	---	---	---	---	---	---	39.09	15.30	23.79	---	3.4
MW-10	07/20/2001	<1.0	5,900 e	41,000	800	3,500	1,200	5,000	---	50,000	---	---	---	---	---	0.00675	39.09	16.84	22.25	---	0.4
MW-10	10/19/2001	---	---	28,000	890	3,100	1,000	4,200	---	46,000	---	---	---	---	---	---	39.09	17.48	21.61	---	0.3
MW-10	01/10/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	16.75	---	f	---
MW-10	01/25/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.09	17.66	22.29	1.07	---
MW-10	04/30/2002	---	---	54,000	3,200	5,100	1,700	8,500	---	210,000	---	---	---	---	---	---	39.09	16.38	22.71	---	0.6
MW-10	07/17/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	19.61	---	f	---
MW-10	10/16/2002	ND	---	210,000	1,600	4,700	2,700	18,000	---	74,000	<1,000	<100	<100	460	---	---	41.69	19.25	22.44	---	0.3
MW-10	01/08/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	16.32	26.64	1.59	0.7
MW-10	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	16.20	25.89	0.50	---
MW-10	07/10/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	19.01	23.49	1.01	---
MW-10	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	18.20	24.26	0.96	---
MW-10	01/29/2004	2.5	1,300 e	15,000	53	<10	<10	<20	---	16,000	---	---	---	---	---	0.00122	41.69	16.89	24.80	---	0.3
MW-10	04/29/2004	---	---	36,000	310	<100	<100	<100	---	37,000	---	---	---	---	---	---	41.69	16.15	25.54	---	0.3
MW-10	07/27/2004	33	97,000 e	310,000	1,000	590	370	1,150	---	48,000	---	---	---	---	---	0.00779	41.69	18.06	23.63	---	0.1
MW-10	10/25/2004	---	---	4,500	60	63	12	71	---	3,700	---	---	---	---	---	---	41.69	h	---	---	2.2
MW-10	01/26/2005	<2	1,300	14,000	50	76	85	400	---	4,500	---	---	---	---	---	0.00876	41.69	16.66	25.03	---	2.1
MW-10	04/28/2005	---	---	210,000	4,300	5,200	2,100	13,600	---	130,000	---	---	---	---	---	---	41.69	16.76	24.93	---	1.4
MW-10	07/14/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	19.32	22.40	0.04	---
MW-10	11/01/2005	---	---	140,000	340	1,300	2,200	10,000	---	5,300	---	---	---	---	---	---	41.69	17.65	24.04	---	1.7

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-10	01/23/2006	4.6	76 e,n	<500	11	<5.0	<5.0	33	---	700	6,500	---	---	---	---	0.0043	41.69	14.80	26.89	---	1.8
MW-10	04/25/2006	---	---	1,500 g	49	<10	9.5 p	28	---	3,100	27,000	---	---	---	---	---	41.69	14.40	27.29	---	0.61
MW-10	09/27/2006	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	---	---	---	---
MW-10	11/15/2006	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	---	---	---	---
MW-10	01/12/2007	<4.7	31,000 e	29,000	500	<50	130	680	---	12,000	29,000	---	---	---	---	0.011	41.69	15.49	26.20	---	0.1
MW-10	04/23/2007	---	---	1,100 y	78	<50	<50	<50	---	3,200	13,000	---	---	---	---	---	41.69	16.85	24.84	---	1.8
MW-10	07/06/2007	2.5	9,400 e	15,000 y	600	<50	170	293	---	4,100	48,000	---	---	---	---	0.00137	41.69	16.24	25.45	---	0.01
MW-10	10/18/2007	---	---	820 y	82	<50	14 p	<50	---	5,200	32,000	---	---	---	---	---	41.69	---	---	---	0.1
MW-10	01/31/2008	<1.0	98 e,g	1,000 y	31	<50	<50	<50	---	340	22,000	---	---	---	---	0.0748	41.69	14.70	26.99	---	5.80
MW-10	04/21/2008	---	---	18,000	180	<25	55	77	---	2,700	64,000	---	---	---	---	---	41.69	15.50	26.19	---	0.3
MW-10	07/30/2008	13.9	30,000 e	21,000	400	<100	180	140	---	520	49,000	---	---	---	---	0.00673	41.69	16.47	25.22	---	1.04
MW-10	10/17/2008	---	---	6,400	<100	<100	<100	<100	---	<100	34,000	---	---	---	---	---	41.69	17.24	24.45	---	1.20
MW-10	01/07/2009	16.3	19,000 e	92,000	310	<100	190	<100	---	<100	39,000	---	---	---	---	0.00679	41.69	16.40	25.29	---	1.07
MW-10	04/22/2009	---	---	7,200	470	<50	<50	<50	---	910	70,000	---	---	---	---	---	41.69	15.31	26.38	---	0.96
MW-10	07/15/2009	4	8,300 e	3,000	170	<20	<20	<20	---	84	38,000	---	---	---	---	0.00322	41.69	16.53	25.16	---	1.33
MW-10	10/30/2009	---	---	4,600	76	<50	<50	<50	---	50	48,000	---	---	---	---	---	41.69	16.12	25.57	---	0.05
MW-10	11/25/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41.69	16.81	24.88	---	---
MW-10	01/13/2010	24.7	26,000 e,z	32,000	130	<100	<100	<100	---	120	47,000	---	---	---	---	0.00702	41.69	15.64	26.05	---	0.32
MW-10	04/13/2010	---	---	5,600	500	<50	<50	<50	---	410	79,000	---	---	---	---	---	41.69	12.88	28.81	---	0.15
MW-10	07/08/2010	<1.0	6,900 e,z	5,300	200	<100	<100	<100	---	<100	68,000	---	---	---	---	0.00143	41.69	15.81	25.88	---	1.07
MW-10	11/09/2010	4.3	3,500 e,g	10,000	1,500	<50	<50	<50	---	370	150,000	---	---	---	---	0.00461	41.69	16.32	25.37	---	1.26
MW-10	01/25/2011	<5.0	18,000 e	12,000	1,500	<100	<100	<200	---	980	120,000	---	---	---	---	0.0073	41.69	15.36	26.33	---	1.30
MW-10	04/06/2011	---	---	8,800	860	<50	<50	<100	---	740	76,000	---	---	---	---	---	41.69	12.81	28.88	---	1.50
MW-10	**07/21/2011**	**<4.7**	**7,000 e,x**	**9,500**	**1,400**	**<50**	**<50**	**<100**	**---**	**390**	**120,000**	**---**	**---**	**---**	**---**	**0.0077**	**41.69**	**15.10**	**26.59**	**---**	**0.52**
MW-10	**10/11/2011**	**---**	**---**	**4,300**	**68**	**<10**	**<10**	**<20**	**---**	**56**	**42,000**	**---**	**---**	**---**	**---**	**---**	**41.69**	**15.67**	**26.02**	**---**	**0.03**
MW-11	11/22/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	17.99	21.34	---	---
MW-11	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	17.77	21.56	---	---
MW-11	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	17.00	22.33	---	---
MW-11	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	17.01	22.32	---	---
MW-11	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.02	25.31	---	---
MW-11	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	16.54	22.79	---	---
MW-11	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.97	24.36	---	---
MW-11	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	15.55	23.78	---	---
MW-11	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.10	25.23	---	---
MW-11	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.48	24.85	---	---
MW-11	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.0054	39.33	14.95	24.38	---	---
MW-11	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	39.33	14.55	24.78	---	---
MW-11	07/05/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.92	24.41	---	---
MW-11	01/12/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	39.33	13.21	26.12	---	---
MW-11 (D)	01/12/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---
MW-11	07/05/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	13.51	25.82	---	---
MW-11	01/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	39.33	14.00	25.33	---	---
MW-11	07/16/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	13.75	25.58	---	---
MW-11	01/16/1997	ND	59	ND	ND	ND	ND	ND	11	---	---	---	---	---	---	ND	39.33	12.05	27.28	---	---
MW-11	08/01/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.30	25.03	---	---
MW-11	01/29/1998	ND	ND	ND	ND	ND	ND	ND	2,800	3,900	---	---	---	---	---	ND	39.33	11.95	27.38	---	---
MW-11	07/24/1998	ND	ND	ND	ND	ND	ND	ND	13,000	---	---	---	---	---	---	ND	39.33	13.30	26.03	---	---
MW-11	01/13/1999	ND	ND	ND	ND	ND	ND	ND	21,200	---	---	---	---	---	---	ND	39.33	14.90	24.43	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-11 (D)	01/13/1999	---	ND	ND	ND	ND	ND	ND	21,100	---	---	---	---	---	---	---	39.33	---	---	---	---
MW-11	07/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.33	14.32	25.01	---	0.7
MW-11	10/22/1999	---	---	85	<0.5	<0.5	<0.5	<1	9700	23,000	---	---	---	---	---	---	39.33	14.95	24.38	---	0.6
MW-11	01/14/2000	---	<50	150	<0.5	<0.5	<0.5	<1	24,000	25,000	---	---	---	---	---	---	39.33	15.05	24.28	---	0.8
MW-11	01/26/2000	4.7	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.050	39.33	---	---	---	---
MW-11	03/23/2000	---	---	190	<0.5	<0.5	<0.5	<1	23,000	32,000	---	---	---	---	---	---	39.33	13.64	25.69	---	1.2
MW-11	04/14/2000	---	---	190	<0.5	<0.5	<0.5	<1	36,000	39,000	---	---	---	---	---	---	39.33	13.36	25.97	---	1.4
MW-11	05/01/2000	---	---	230	<0.5	<0.5	<0.5	<1	33,000	41,000	---	---	---	---	---	---	39.33	13.56	25.77	---	0.8
MW-11	06/27/2000	---	---	160	<0.5	<0.5	<0.5	<1	37,000	31,000	---	---	---	---	---	---	39.33	13.99	25.34	---	1.2
MW-11	07/31/2000	5.9	<50	200	<0.5	<0.5	<0.5	<1	47,000	30,000	---	---	---	---	---	0.012	39.33	14.35	24.98	---	2.0
MW-11	08/17/2000	---	---	160	<0.5	<0.5	3.2	16	35,000	43,000	---	---	---	---	---	---	39.33	14.50	24.83	---	0.4
MW-11	09/21/2000	---	---	150	<50	<50	<50	<100	22,000	19,000	---	---	---	---	---	---	39.33	15.28	24.05	---	1.2
MW-11	10/31/2000	---	---	290	<0.5	<0.5	1.6	9.1	28,000	34,000	---	---	---	---	---	---	39.33	13.71	25.62	---	1.9
MW-11	11/20/2000	---	---	<1,000	<10	<10	<10	<20	23,000	19,000	---	---	---	---	---	---	39.33	14.93	24.40	---	0.4
MW-11	01/04/2001	9.5	380 e	14,000	<0.5	1.6	0.6	3.0	34,000	41,000	---	---	---	---	---	<0.050	39.33	14.46	24.87	---	5.2
MW-11	04/10/2001	---	---	11,000	<10	13	<10	<30	14,000	16,000	---	---	---	---	---	---	39.33	13.50	25.83	---	3.2
MW-11	07/20/2001	<1.0	<50 e	<2,000	<20	<20	<20	<20	---	8,100	---	---	---	---	---	0.00186	39.33	15.94	23.39	---	2.0
MW-11 (D)	07/20/2001	---	<50 e	<2,000	<20	<20	<20	<20	---	7,600	---	---	---	---	---	---	39.33	---	---	---	---
MW-11	10/19/2001	---	---	<2,000	<20	<20	<20	<20	---	8,600	---	---	---	---	---	---	39.33	16.35	22.98	---	0.2
MW-11	01/10/2002	<5	<50 e	<2,000	<20	<20	<20	<20	---	9,300	---	---	---	---	---	<0.00100	39.33	14.83	24.50	---	2.0
MW-11	01/17/2002	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0017	39.33	---	---	---	---
MW-11	04/30/2002	---	---	<100	<1.0	1.1	<1.0	2.3	---	6,900	---	---	---	---	---	---	39.33	15.09	24.24	---	0.6
MW-11	07/17/2002	---	59 e	<2,000	<20	<20	<20	<20	---	8,000	---	---	---	---	---	---	39.33	16.43	22.90	---	0.2
MW-11	10/16/2002	---	---	<1,000	<10	<10	<10	<10	---	6,700	<100	<10	<10	25	---	---	39.33	17.11	22.22	---	0.4
MW-11	01/08/2003	4.6 k	100 e	<5,000	<50	<50	<50	<50	---	18,000	---	---	---	---	---	0.0066	39.33	13.52	25.81	---	0.4
MW-11	04/16/2003	---	---	120,000	2,500	23,000	2,300	16,000	---	13,000	---	---	---	---	---	---	39.33	14.15	25.18	---	0.8
MW-11	07/10/2003	<1.0	2,400 e,g	35,000	<25	<25	<25	2,900	---	7,400	---	---	---	---	---	<0.0010	39.33	15.44	23.89	---	0.1
MW-11	10/23/2003	---	---	1,500	<10	<10	<10	<20	---	3,200	---	---	---	---	---	---	39.33	16.23	23.10	---	1.1
MW-11	01/29/2004	<2.0	<500 e	1,100	<5	<5	<5	<10	---	670	---	---	---	---	---	0.00178	39.33	14.08	25.25	---	1.2
MW-11	04/29/2004	---	---	1,300	<0.5	<1	<1	<1	---	170	---	---	---	---	---	---	39.33	15.23	24.10	---	1.2
MW-11	07/27/2004	<2.0	<500 e	1,400	<0.5	<0.5	<0.5	<1	---	49	---	---	---	---	---	0.0112	39.33	16.69	22.64	---	3.6
MW-11	10/25/2004	---	---	3,400	<0.5	<0.5	<0.5	<1	---	44	---	---	---	---	---	---	39.33	h	---	---	1.0
MW-11	01/26/2005	<2	<500	1,500	<0.5	<0.5	<0.5	<2	---	34	---	---	---	---	---	0.0212	39.33	13.90	25.43	---	0.9
MW-11	04/28/2005	---	---	560	<0.5	<0.5	<0.5	<0.5	---	37	---	---	---	---	---	---	39.33	13.16	26.17	---	2.2
MW-11	07/14/2005	<2	150	210	<0.5	<0.5	<0.5	<0.5	---	21	---	---	---	---	---	<0.001	39.33	14.85	24.48	---	3.5
MW-11	11/01/2005	---	---	<1,000	<10	<10	<10	<20	---	19	---	---	---	---	---	---	39.33	15.75	23.58	---	3.1
MW-11	01/23/2006	<2.0	<50 e	<500	<5.0	<5.0	<5.0	<10	---	23	3,700	---	---	---	---	0.028	39.33	13.92	25.41	---	1.7
MW-11	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	26	2,300	---	---	---	---	---	39.33	12.88	26.45	---	0.63
MW-11	09/27/2006	5.8	470 g,t	110 v	<2.5	<2.5	<2.5	<2.5	---	10	4,400	---	---	---	---	<0.005	39.33	13.64	25.69	---	0.3
MW-11	11/15/2006	---	---	300	<2.5	<2.5	<2.5	<2.5	---	8.1	6,400	---	---	---	---	---	39.33	13.45	25.88	---	0.4
MW-11	01/12/2007	<4.7	140 e	320	<0.50	<0.50	<0.50	<1.0	---	7.6	8,600	---	---	---	---	0.0069	39.33	13.70	25.63	---	1.0
MW-11	04/23/2007	---	---	74 g,y	<2.5	<5.0	<5.0	<5.0	---	7.7	1,800	---	---	---	---	---	39.33	14.42	24.91	---	2.2
MW-11	07/06/2007	<1.0	140 e,g	250 y	<2.5	<5.0	<5.0	<5.0	---	12	9,200	---	---	---	---	0.00167	39.33	14.27	25.06	---	0.01
MW-11	10/18/2007	---	---	<50 y	<5.0	<10	<10	<10	---	8.5 p	2,500	---	---	---	---	---	39.33	---	---	---	2.6
MW-11	01/31/2008	<1.0	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	7.2	1,600	---	---	---	---	<0.00100	39.33	13.61	25.72	---	2.67
MW-11	04/21/2008	---	---	340	<1.0	<2.0	<2.0	<2.0	---	9.5	5,900	---	---	---	---	---	39.33	13.63	25.70	---	0.4
MW-11	07/30/2008	1.6	<50 e	240	<1.0	<2.0	<2.0	<2.0	---	14	3,400	---	---	---	---	0.0109	39.33	14.84	24.49	---	0.42
MW-11	10/17/2008	---	---	510	<0.50	<1.0	<1.0	<1.0	---	4.0	3,000	---	---	---	---	---	39.33	15.39	23.94	---	1.16
MW-11	01/07/2009	1.2	220 e,g	150	<1.0	<2.0	<2.0	<2.0	---	3.2	3,500	---	---	---	---	0.0175	39.33	14.61	24.72	---	0.93

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-11	04/22/2009	---	---	140	<0.50	<1.0	<1.0	<1.0	---	4.7	3,500	---	---	---	---	---	39.33	13.49	25.84	---	1.8
MW-11	07/15/2009	<1.0	63 e	88	<0.50	<1.0	<1.0	<1.0	---	6.8	2,900	---	---	---	---	0.0129	39.33	14.51	24.82	---	1.32
MW-11	10/30/2009	---	---	200	<0.50	<1.0	<1.0	<1.0	---	4.3	3,800	---	---	---	---	---	39.33	14.30	25.03	---	0.06
MW-11	01/13/2010	<1.0	<50 e	200	<0.50	<1.0	<1.0	<1.0	---	6.0	3,900	---	---	---	---	0.00505	39.33	13.88	25.45	---	1.01
MW-11	04/13/2010	---	---	<250	<2.5	<5.0	<5.0	<5.0	---	5.6	3,800	---	---	---	---	---	39.33	11.10	28.23	---	0.08
MW-11	07/08/2010	<1.0	<50 e	<250	<2.5	<5.0	<5.0	<5.0	---	6.6	4,700	---	---	---	---	0.0101	39.33	13.69	25.64	---	1.97
MW-11	11/09/2010	<1.0	110 e	<100	5.2	<2.0	<2.0	<2.0	---	17	1,900	---	---	---	---	0.0157	39.33	14.69	24.64	---	2.44
MW-11	01/25/2011	<5.0	64 e	<50	<0.50	<0.50	<0.50	<1.0	---	6.6	240	---	---	---	---	0.023	39.33	13.45	25.88	---	1.50
MW-11	04/06/2011	---	---	<250	<2.5	<2.5	<2.5	<5.0	---	<5.0	3,300	---	---	---	---	---	39.33	11.23	28.10	---	0.24
MW-11	**07/21/2011**	**<4.8**	**55 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**10**	**320**	**---**	**---**	**---**	**---**	**0.025**	**39.33**	**13.18**	**26.15**	**---**	**0.44**
MW-11	**10/11/2011**	**---**	**---**	**78**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**3.4**	**2,600**	**---**	**---**	**---**	**---**	**---**	**39.33**	**13.95**	**25.38**	**---**	**0.08**
MW-12	11/22/1989	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	18.59	20.70	---	---
MW-12	04/16/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	17.77	21.52	---	---
MW-12	07/10/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	17.33	21.96	---	---
MW-12	10/17/1990	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	17.76	21.53	---	---
MW-12	04/05/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.16	24.13	---	---
MW-12	07/08/1991	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	17.41	21.88	---	---
MW-12	01/23/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.70	23.59	---	---
MW-12	07/09/1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	16.31	22.98	---	---
MW-12	01/07/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	14.82	24.47	---	---
MW-12	07/23/1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.35	23.94	---	---
MW-12	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.0067	39.29	15.71	23.58	---	---
MW-12	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.005	39.29	15.41	23.88	---	---
MW-12	07/05/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.74	23.55	---	---
MW-12	01/12/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	13.63	25.66	---	---
MW-12	07/05/1995	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	14.52	24.77	---	---
MW-12	01/10/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	14.85	24.44	---	---
MW-12	07/16/1996	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	14.60	24.69	---	---
MW-12	01/16/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	12.45	26.84	---	---
MW-12	08/01/1997	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.20	24.09	---	---
MW-12	01/29/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	13.04	26.25	---	---
MW-12	07/24/1998	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	14.17	25.12	---	---
MW-12	01/13/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.70	23.59	---	---
MW-12	07/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.23	24.06	---	0.6
MW-12	01/14/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	15.75	23.54	---	0.6
MW-12	04/14/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	39.29	14.62	24.67	---	1.2/0.8
MW-12	07/31/2000	---	---	<50	<0.5	<0.5	<0.5	<1	<3	---	---	---	---	---	---	---	39.29	15.18	24.11	---	1.0
MW-12	10/31/2000	---	---	<50	<0.5	<0.5	<0.5	<1.0	<5	---	---	---	---	---	---	---	39.29	14.71	24.58	---	3.6
MW-12	01/04/2001	---	---	<50	<0.5	<0.5	<0.5	<1.0	<5	---	---	---	---	---	---	---	39.29	15.25	24.04	---	0.2
MW-12	04/10/2001	---	---	<50	<0.5	<0.5	<0.5	<1.5	<5	---	---	---	---	---	---	---	39.29	14.18	25.11	---	3.8/3.4
MW-12	07/20/2001	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.29	15.56	23.73	---	0.9
MW-12	10/19/2001	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	3.8	---	---	---	---	---	---	39.29	16.26	23.03	---	0.3
MW-12	11/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.29	16.17	23.12	---	---
MW-12	11/14/2001	---	<50	<50	<0.50	<0.50	<0.50	<1.0	---	2.3	---	---	---	---	---	---	39.29	15.70	23.59	---	---
MW-12	01/10/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.29	13.78	25.51	---	1.7
MW-12	04/30/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.29	15.47	23.82	---	0.6
MW-12	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.29	16.25	23.04	---	1.6
MW-12	10/16/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.29	16.83	22.46	---	0.3/0.5

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-12	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	39.29	13.46	25.83	---	0.9
MW-12	04/16/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<5.0	---	---	---	---	---	---	39.29	13.94	25.35	---	0.6/5.0
MW-12	07/10/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	1.6	---	---	---	---	---	---	39.29	15.52	23.77	---	1.3
MW-12	10/23/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	1.3	---	---	---	---	---	---	39.29	16.13	23.16	---	0.5
MW-12	01/29/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	1.6	---	---	---	---	---	---	39.29	14.37	24.92	---	0.9
MW-12	04/29/2004	---	---	<50	<0.5	<1	<1	<1	---	1.4	---	---	---	---	---	---	39.29	14.95	24.34	---	0.3
MW-12	07/27/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	0.96	---	---	---	---	---	---	39.29	15.88	23.41	---	0.1/0.1
MW-12	10/25/2004	---	---	150	<0.5	<0.5	<0.5	<1	---	0.86	---	---	---	---	---	---	39.29	15.42	23.87	---	0.9
MW-12	01/25/2005	---	---	<50	<0.5	<0.5	<0.5	<2	---	<0.50	---	---	---	---	---	---	39.29	13.56	25.73	---	0.7
MW-12	04/28/2005	---	---	54	<0.5	<0.5	<0.5	<0.5	---	0.66	---	---	---	---	---	---	39.29	12.85	26.44	---	0.9
MW-12	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	0.58	---	---	---	---	---	---	39.29	14.68	24.61	---	1.0/1.9
MW-12	11/01/2005	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	0.87	---	---	---	---	---	---	39.29	15.42	23.87	---	2.1
MW-12	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	0.67	<5.0	---	---	---	---	---	39.29	12.98	26.31	---	1.3
MW-12	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	0.52 p	<10	---	---	---	---	---	39.29	11.43	27.86	---	0.70
MW-12	09/27/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	0.65	<20 t	---	---	---	---	---	39.29	14.60	24.69	---	---
MW-12	11/15/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<20	---	---	---	---	---	39.29	14.27	25.02	---	0.2
MW-12	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	---	39.29	14.42	24.87	---	0.5
MW-12	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	14.52	24.77	---	0.1
MW-12	07/06/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	0.27 p	<10	---	---	---	---	---	39.29	15.12	24.17	---	0.3
MW-12	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	0.54 p	<10	---	---	---	---	---	39.29	14.98	24.31	---	0.1
MW-12	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	12.71	26.58	---	).83/0.41/0.1
MW-12	04/21/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	14.45	24.84	---	0.8
MW-12	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	15.45	23.84	---	0.87
MW-12	10/17/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	15.99	23.30	---	2.14
MW-12	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	15.22	24.07	---	1.76
MW-12	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	14.19	25.10	---	0.49
MW-12	07/15/2009	<1.0	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	15.28	24.01	---	1.33
MW-12	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	14.70	24.59	---	0.06/1.23
MW-12	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	13.86	25.43	---	0.45
MW-12	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	11.68	27.61	---	1.12/0.15
MW-12	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	14.45	24.84	---	0.74/1.29
MW-12 (D)	07/08/2010	---	99 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
MW-12	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	15.23	24.06	---	0.40
MW-12	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	14.00	25.29	---	0.37
MW-12	04/06/2011	---	---	62	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	39.29	11.23	28.06	---	0.26
MW-12	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**39.29**	**13.99**	**25.30**	**---**	**0.34**
MW-12	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**39.29**	**14.66**	**24.63**	**---**	**0.39**
MW-13	01/13/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	ND	38.74	14.80	23.94	---	---
MW-13	04/05/1994	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.011	38.74	15.32	23.42	---	---
MW-13	07/05/1994	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	14.81	23.93	---	---
MW-13	01/12/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.0055	38.74	12.49	26.25	---	---
MW-13	07/05/1995	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.03	38.74	13.63	25.11	---	---
MW-13	01/10/1996	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	0.045	38.74	13.95	24.79	---	---
MW-13	07/16/1996	ND	72	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	0.024	38.74	13.67	25.07	---	---
MW-13	01/16/1997	ND	54	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	0.037	38.74	11.92	26.82	---	---
MW-13	08/01/1997	ND	95	ND	ND	ND	ND	ND	2.8	ND	---	---	---	---	---	0.01	38.74	14.35	24.39	---	---
MW-13	01/29/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.74	12.50	26.24	---	---
MW-13	07/24/1998	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	38.74	13.63	25.11	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-13	01/13/1999	ND	ND	ND	ND	ND	ND	ND	6.59	---	---	---	---	---	---	ND	38.74	14.80	23.94	---	---
MW-13	07/16/1999	ND	<50	<50	<0.5	<0.5	<0.5	<0.5	7	---	---	---	---	---	---	ND	38.74	14.46	24.28	---	1.1
MW-13	01/14/2000	---	<50	<50	<0.5	<0.5	<0.5	<1	15	---	---	---	---	---	---	---	38.74	14.83	23.91	---	0.9/0.9
MW-13	01/26/2000	<0.050	<50	<50	<0.5	<0.5	<0.5	<1	15	---	---	---	---	---	---	<0.050	38.74	14.83	23.91	---	0.9/0.9
MW-13	07/31/2000	0.8	<50	<50	<0.5	<0.5	<0.5	<1	16	17	---	---	---	---	---	0.007	38.74	14.28	24.46	---	3.1
MW-13	01/04/2001	<0.500	<50 e	<50	<0.5	<0.5	<0.5	<1.0	25	22	---	---	---	---	---	<0.050	38.74	14.20	24.54	---	0.9
MW-13	07/20/2001	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	28	---	---	---	---	---	0.00247	38.74	14.10	24.64	---	1.3
MW-13	01/10/2002	<1.0	<50 e	<50	<0.50	<0.50	<0.50	1.3	---	41	---	---	---	---	---	0.0207	38.74	12.81	25.93	---	1.6
MW-13	07/17/2002	---	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	54	---	---	---	---	---	---	38.74	15.19	23.55	---	1.2
MW-13	10/16/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	15.64	23.10	---	---
MW-13	01/08/2003	1.3 k	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	74	---	---	---	---	---	0.0212	38.74	12.62	26.12	---	2.3
MW-13	04/16/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	13.35	25.39	---	---
MW-13	07/10/2003	<1.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	100	---	---	---	---	---	0.016	38.74	14.42	24.32	---	0.1
MW-13	10/23/2003	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	14.99	23.75	---	---
MW-13	01/29/2004	<2.0	<500 e	140	<0.5	<0.5	<0.5	<1	---	120	---	---	---	---	---	0.00455	38.74	13.28	25.46	---	1.1
MW-13	04/29/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	13.88	24.86	---	---
MW-13	07/27/2004	3.2	<500 e	73	<0.5	<0.5	<0.5	<1	---	77	---	---	---	---	---	0.00654	38.74	14.65	24.09	---	0.3
MW-13	10/25/2004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	14.22	24.52	---	---
MW-13	01/25/2005	<2	<500	82	<0.5	<0.5	<0.5	<2	---	93	---	---	---	---	---	0.00734	38.74	12.51	26.23	---	0.5
MW-13	04/28/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	12.30	26.44	---	---
MW-13	07/14/2005	<2	<50	99	<0.5	<0.5	<0.5	<0.5	---	94	---	---	---	---	---	0.00577	38.74	13.58	25.16	---	2.3
MW-13 (D)	07/14/2005	---	94	110	<0.5	<0.5	<0.5	<0.5	---	98	---	---	---	---	---	---	38.74	---	---	---	---
MW-13	11/01/2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	14.09	24.65	---	---
MW-13	01/23/2006	<2.0	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	100	<5.0	---	---	---	---	0.01	38.74	12.05	26.69	---	0.40
MW-13	09/27/2006	6.1	<47 t	59 v	<0.50	<0.50	<0.50	<0.50	---	72	<20	---	---	---	---	<0.0005	38.74	13.48	25.26	---	0.7/0.3
MW-13	01/12/2007	<4.7	<50 e	85	<0.50	<0.50	<0.50	<1.0	---	59	<5.0	---	---	---	---	0.009	38.74	13.41	25.33	---	1.3
MW-13	04/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	13.38	25.36	---	---
MW-13	07/06/2007	<1.0	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	41	<10	---	---	---	---	0.00242	38.74	14.16	24.58	---	0.4/0.1
MW-13 (D)	07/06/2007	---	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	42	<10	---	---	---	---	---	38.74	---	---	---	---
MW-13	10/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.74	13.71	25.03	---	---
MW-13	01/31/2008	<1.0	320 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	30	<10	---	---	---	---	0.00427	38.74	11.81	26.93	---	0.25
MW-13	07/30/2008	1.5	<50 e	60	<0.50	<1.0	<1.0	<1.0	---	27	<10	---	---	---	---	0.0119	38.74	14.46	24.28	---	0.60
MW-13	01/07/2009	1.2	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	25	<10	---	---	---	---	0.00878	38.74	14.05	24.69	---	1.41
MW-13 (D)	01/07/2009	---	69 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	25	<10	---	---	---	---	---	38.74	---	---	---	---
MW-13	07/15/2009	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	25	<10	---	---	---	---	0.0029	38.74	14.26	24.48	---	0.17
MW-13	01/13/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	29	<10	---	---	---	---	0.0198	38.74	13.62	25.12	---	0.57
MW-13	07/08/2010	<1.0	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	18	<10	---	---	---	---	<0.00100	38.74	13.53	25.21	---	0.86
MW-13	01/25/2011	<5.0	47 e	<50	<0.50	<0.50	<0.50	1.5	---	18	12	---	---	---	---	0.0030	38.74	12.99	25.75	---	0.74
MW-13	**07/21/2011**	**<4.9**	**<49 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**13**	**<10**	**---**	**---**	**---**	**---**	**0.0042**	**38.74**	**13.04**	**25.70**	**---**	**0.18**
MW-14	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.89	14.28	24.61	---	---
MW-14	07/17/2002	---	---	460	1.1	2.1	2.5	14	---	220	<50	<2.0	<2.0	130	---	---	38.89	14.43	24.46	---	1.9
MW-14	10/16/2002	---	---	150	<0.50	<0.50	<0.50	<0.50	---	170	<50	<2.0	<2.0	91	---	---	38.89	16.06	22.83	---	0.5
MW-14	01/08/2003	---	---	880	23	<0.50	3.2	34	---	290	<50	<2.0	<2.0	200	---	---	38.89	13.96	24.93	---	0.6
MW-14	04/16/2003	---	---	340	5.7	<2.5	4.4	46	---	260	<25	<10	<10	160	---	---	38.89	14.16	24.73	---	1.2
MW-14	07/10/2003	---	---	<250	<2.5	<2.5	<2.5	<5.0	---	310	<25	<10	<10	190	---	---	38.89	15.43	23.46	---	0.6
MW-14	10/23/2003	---	---	<250	<2.5	<2.5	<2.5	<5.0	---	340	92	<10	<10	43	---	---	38.89	15.94	22.95	---	0.5
MW-14	01/29/2004	---	---	160	0.84	<0.5	0.64	1.1	---	57	1,000	<2	<2	14	---	---	38.89	15.58	23.31	---	0.4
MW-14	04/29/2004	---	---	110	<0.5	<0.5	<0.5	<1	---	14	350	<1.0	<1.0	2.2	---	---	38.89	14.12	24.77	---	1.2

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-14	07/27/2004	---	---	120	<0.5	<0.5	<0.5	<1	---	6.5	280	<10	<10	<10	---	---	38.89	13.77	25.12	---	0.3
MW-14	10/25/2004	---	---	150	1.2	<0.5	3.9	13.8	---	6	310	<10	<10	<10	---	---	38.89	13.88	25.01	---	2.3
MW-14	01/26/2005	---	---	210	2.6	<0.5	0.88	2.7	---	9	440	<0.5	<0.5	4.5	---	---	38.89	12.67	26.22	---	0.4
MW-14	04/28/2005	---	---	150	<0.5	<0.5	<0.5	<0.5	---	3.9	410	<0.5	<0.5	1.5	---	---	38.89	11.53	27.36	---	1.9
MW-14	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	3.4	390	<0.5	<0.5	0.95	---	---	38.89	12.75	26.14	---	1.6
MW-14	11/01/2005	---	---	210	<0.50	<0.50	0.53	<1.0	---	4.3	440	<0.50	<0.50	1.0	---	---	38.89	13.45	25.44	---	0.4
MW-14	01/23/2006	---	---	270	2.7	<0.50	6.9	2.4	---	5.2	180	<2.0	<2.0	3.7	---	---	38.89	11.80	27.09	---	1.3
MW-14	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.5	110	---	---	---	---	---	38.89	11.40	27.49	---	0.61
MW-14	09/27/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	3.1	240	---	---	---	---	---	38.89	12.58	26.31	---	1.05
MW-14	11/15/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	2.4	200	---	---	---	---	---	38.89	11.95	26.94	---	0.2
MW-14	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.6	150	<2.0	<2.0	<2.0	---	---	38.89	12.48	26.41	---	1.59
MW-14	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	1.6	<10	<2.0	<2.0	<2.0	---	---	38.89	12.73	26.16	---	0.1
MW-14	07/06/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	1.3	46	<2.0	<2.0	<2.0	---	---	38.89	13.20	25.69	---	1.39
MW-14	10/18/2007	---	---	89 y	0.28 p	<1.0	1.4	3.2	---	2.5	40	<2.0	<2.0	<2.0	---	---	38.89	13.28	25.61	---	1.2
MW-14	01/31/2008	---	---	200 y	<0.50	<1.0	<1.0	1.8	---	2.5	23	<2.0	<2.0	<2.0	---	---	38.89	11.33	27.56	---	0.65
MW-14	04/21/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	1.5	12	<2.0	<2.0	<2.0	---	---	38.89	12.50	26.39	---	0.2
MW-14	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	1.3	<10	<2.0	<2.0	<2.0	---	---	38.89	13.71	25.18	---	0.14
MW-14	10/17/2008	---	---	78	<0.50	<1.0	<1.0	3.5	---	4.9	<10	<2.0	<2.0	<2.0	---	---	38.89	14.18	24.71	---	2.22
MW-14	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	1.7	<10	<2.0	<2.0	<2.0	---	---	38.89	13.38	25.51	---	0.13
MW-14	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	38.89	12.20	26.69	---	0.97
MW-14	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	38.89	13.32	25.57	---	2.44
MW-14	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	38.89	13.10	25.79	---	0.46
MW-14	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	38.89	12.69	26.20	---	0.33
MW-14	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	38.89	10.12	28.77	---	0.95
MW-14	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	38.89	12.42	26.47	---	0.60
MW-14	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	38.89	13.31	25.58	---	1.18
MW-14	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	---	---	38.89	12.17	26.72	---	1.14
MW-14	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	---	---	38.89	9.75	29.14	---	0.33
MW-14	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.89**	**12.04**	**26.85**	**---**	**0.49**
MW-14	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.89**	**12.57**	**26.32**	**---**	**0.04**
MW-15	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.57	14.16	24.41	---	---
MW-15	07/17/2002	---	---	32,000	1,100	1,000	950	4,000	---	1,700	210	5.5	<5.0	<5.0	---	---	38.57	14.75	23.82	---	0.4
MW-15	10/16/2002	---	---	13,000	470	290	520	1,200	---	1,100	99	<2.5	<2.5	<2.5	---	---	38.57	15.38	23.19	---	0.4
MW-15	01/08/2003	---	---	8,100	540	160	350	660	---	11,000	1,600	<20	<20	<20	---	---	38.57	12.25	26.32	---	1.1
MW-15	04/16/2003	---	---	6,700	400	100	280	370	---	9,900	1,300	<200	<200	<200	---	---	38.57	12.51	26.06	---	1.0
MW-15	07/10/2003	---	---	<5,000	500	98	310	440	---	8,600	580	<200	<200	<200	---	---	38.57	13.79	24.78	---	0.15
MW-15	10/23/2003	---	---	<2,500	800	220	340	600	---	8,700	680	<100	<100	<100	---	---	38.57	14.45	24.12	---	0.3
MW-15	01/29/2004	---	---	8,700	340	48	120	290	---	6,200	5,200	<100	<100	<100	---	---	38.57	12.69	25.88	---	0.4
MW-15	04/29/2004	---	---	3,600	140	20	92	174	---	4,900	400	1.3	<1.0	4.1	---	---	38.57	13.17	25.40	---	0.4
MW-15	07/27/2004	---	---	5,000	140	21	80	194	---	3,000	340	<10	<10	<10	---	---	38.57	14.46	24.11	---	0.2
MW-15	10/25/2004	---	---	4,300	190	22	87	206	---	2,900	430	<10	<10	<10	---	---	38.57	13.94	24.63	---	0.4
MW-15	01/26/2005	---	---	6,200	260	19	130	270	---	4,300	1,300	<2.5	<2.5	4.1	---	---	38.57	12.38	26.19	---	0.4
MW-15	04/28/2005	---	---	6,400	300	26	120	251	---	4,700	1,700	1.5	<0.5	5.4	---	---	38.57	11.64	26.93	---	1.0
MW-15	07/14/2005	---	---	25,000	670	49	260	680	---	19,000	2,400	<25	<25	26	---	---	38.57	13.03	25.54	---	0.5
MW-15	11/01/2005	---	---	2,900	150	<13	64	200	---	2,600	550	<13	<13	<13	---	---	38.57	13.82	24.75	---	0.2
MW-15	01/23/2006	---	---	<13,000	1,200	410	300	1,700	---	25,000	7,400	<500	<500	<500	---	---	38.57	23.10	15.47	---	1.0
MW-15	04/25/2006	---	---	17,000 g	720	260	190	980	---	30,000	7,100	---	---	---	---	---	38.57	22.71	15.86	---	0.99
MW-15	09/27/2006	---	---	28,000	730	160	300	800	---	28,000	5,400	---	---	---	---	---	38.57	12.74	25.83	---	1.06

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-15	11/15/2006	---	---	17,000 v	430	110	150	520	---	20,000	<4,000	---	---	---	---	---	38.57	15.72	22.85	---	0.2
MW-15	01/12/2007	---	---	14,000	310	27	66	200	---	13,000	2,700	<50	<50	<50	---	---	38.57	12.54	26.03	---	0.43
MW-15	04/23/2007	---	---	5,400 y	550	100 p	140 p	530 p	---	21,000	4,900	<500	<500	<500	---	---	38.57	23.02	15.55	---	0.7
MW-15	07/06/2007	---	---	5,700 y	450	<100	51 p	105 p	---	12,000	20,000	<200	<200	<200	---	---	38.57	13.21	25.36	---	---
MW-15	10/18/2007	---	---	11,000 y	85	<100	<100	<100	---	5,300	31,000	<200	<200	<200	---	---	38.57	22.98	15.59	---	1.1
MW-15	01/31/2008	---	---	500,000 g,y	850	610	3,000	21,700	---	38,000	6,100	<200	<200	<200	---	---	38.57	23.09	15.48	---	1.96
MW-15	04/21/2008	---	---	48,000	550	<200	<200	930	---	33,000	7,500	<400	<400	<400	---	---	38.57	13.49	25.08	---	0.2
MW-15	07/30/2008	---	---	30,000	410	<200	220	820	---	16,000	6,900	<400	<400	<400	---	---	38.57	13.62	24.95	---	1.69
MW-15	10/17/2008	---	---	33,000	350	160	580	2,170	---	14,000	3,300	<200	<200	<200	---	---	38.57	15.09	23.48	---	0.98
MW-15	01/07/2009	---	---	19,000	260	85	190	750	---	9,500	2,900	<100	<100	<100	---	---	38.57	14.36	24.21	---	0.07/0.11
MW-15	04/22/2009	---	---	27,000	840	<250	510	1,200	---	17,000	25,000	---	---	---	---	---	38.57	12.29	26.28	---	0.77
MW-15	07/15/2009	---	---	16,000	390	64	420	1,000	---	8,300	9,500	<100	<100	<100	---	---	38.57	14.31	24.26	---	0.86
MW-15	10/30/2009	---	---	22,000	810	60	550	1,000	---	12,000	35,000	<100	<100	<100	---	---	38.57	13.20	25.37	---	1.11
MW-15	11/25/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.57	14.54	24.03	---	---
MW-15	01/13/2010	---	---	20,000	440	<100	210	250	---	18,000	8,300	<200	<200	<200	---	---	38.57	13.54	25.03	---	0.42
MW-15	04/13/2010	---	---	20,000	710	<100	290	370	---	21,000	19,000	<200	<200	<200	---	---	38.57	10.11	28.46	---	0.60
MW-15	07/08/2010	---	---	13,000	500	<100	210	240	---	8,400	30,000	<200	<200	<200	---	---	38.57	12.59	25.98	---	0.96
MW-15	11/09/2010	---	---	10,000	410	<50	130	130	---	5,500	15,000	<100	<100	<100	---	---	38.57	13.41	25.16	---	0.78/0.63
MW-15	01/25/2011	---	---	9,700	850	<25	260	210	---	3,200	38,000	<50	<50	<50	---	---	38.57	12.23	26.34	---	0.41/0.79
MW-15	04/06/2011	---	---	14,000	780	32	210	240	---	11,000	30,000	<50	<50	<50	---	---	38.57	9.98	28.59	---	0.69
MW-15	**07/21/2011**	**---**	**---**	**11,000 w**	**480 w**	**<50 w**	**130 w**	**100 w**	**---**	**4,000 w**	**29,000 w**	**<100 w**	**<100 w**	**<100 w**	**---**	**---**	**38.57**	**12.12**	**26.45**	**---**	**1.35**
MW-15	**10/11/2011**	**---**	**---**	**7,600**	**400**	**<25**	**54**	**<50**	**---**	**4,000**	**14,000**	**<50**	**<50**	**<50**	**---**	**---**	**38.57**	**13.35**	**25.22**	**---**	**0.64**
MW-17	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.55	15.47	23.08	---	---
MW-17	07/17/2002	---	---	<250	<2.5	<2.5	<2.5	<2.5	---	11,000	57	<2.5	<2.5	34	---	---	38.55	16.82	21.73	---	0.6
MW-17	10/16/2002	---	---	<2,000	<20	<20	<20	<20	---	10,000	<200	<20	<20	28	---	---	38.55	18.81	19.74	---	1.2
MW-17	01/08/2003	---	---	<2,500	<25	<25	<25	<25	---	12,000	<250	<25	<25	42	---	---	38.55	13.21	25.34	---	0.62
MW-17	04/16/2003	---	---	<2,500	<25	<25	<25	<50	---	7,400	<250	<100	<100	<100	---	---	38.55	13.81	24.74	---	0.9
MW-17	07/10/2003	---	---	<5,000	<50	<50	<50	<100	---	9,500	<500	<200	<200	<200	---	---	38.55	14.92	23.63	---	0.08
MW-17	10/23/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	190	<5.0	<2.0	<2.0	<2.0	---	---	38.55	15.57	22.98	---	2.5
MW-17	01/29/2004	---	---	9,000	<25	<25	<25	<50	---	8,600	2,500	<100	<100	<100	---	---	38.55	13.93	24.62	---	0.5
MW-17	04/29/2004	---	---	1,500	<0.5	<0.5	<0.5	<1	---	3,600	300	<1.0	1.4	21	---	---	38.55	14.43	24.12	---	0.5
MW-17	07/27/2004	---	---	2,800	<0.5	<0.5	<0.5	<1	---	2,100	<2,500	<10	<10	11	---	---	38.55	15.40	23.15	---	1.0
MW-17	10/25/2004	---	---	2,700	<5	<5	<5	<10	---	1,700	3,000	<100	<100	<100	---	---	38.55	14.96	23.59	---	0.2
MW-17	01/25/2005	---	---	1,400	<0.5	<0.5	<0.5	<2	---	1,400	2,500	<0.5	0.68	8.2	---	---	38.43 i	13.53	24.90	---	0.3
MW-17	04/28/2005	---	---	1,400 m	<0.5	<0.5	<0.5	0.61	---	760	2,400	<0.5	0.86	4.7	---	---	38.43	12.88	25.55	---	1.4
MW-17	07/14/2005	---	---	700	<0.5	<0.5	<0.5	<0.5	---	490	2,600	0.77	1	3.3	---	---	38.43	14.00	24.43	---	0.7
MW-17	11/01/2005	---	---	<500	<5.0	<5.0	<5.0	<10	---	470	3,100	<5.0	<5.0	<5.0	---	---	38.43	14.75	23.68	---	0.5
MW-17	01/23/2006	---	---	<500	<5.0	<5.0	<5.0	<10	---	420	1,700	<20	<20	<20	---	---	38.43	12.85	25.58	---	1.6
MW-17	04/25/2006	---	---	95 g	<0.50	<1.0	<1.0	<1.0	---	260	1,900	---	---	---	---	---	38.43	11.37	27.06	---	0.60
MW-17	09/27/2006	---	---	200 v	<1.0	<1.0	<1.0	<1.0	---	280	640	---	---	---	---	---	38.43	13.57	24.86	---	1.57
MW-17	11/15/2006	---	---	<100	<1.0	<1.0	<1.0	<1.0	---	160	450	---	---	---	---	---	38.43	13.60	24.83	---	0.3
MW-17	01/12/2007	---	---	300	<0.50	<0.50	<0.50	<1.0	---	210	56	<2.0	<2.0	<2.0	---	---	38.43	13.46	24.97	---	0.66
MW-17	04/23/2007	---	---	53 g,y	<0.50	<1.0	<1.0	<1.0	---	130	110	0.45 p	0.47 p	0.66 p	---	---	38.43	13.85	24.58	---	0.3
MW-17	07/06/2007	---	---	98 g,y	<0.50	<1.0	<1.0	<1.0	---	120	<10	0.33 p	0.73 p	<2.0	---	---	38.43	14.10	24.33	---	1.42
MW-17	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	200	<10	0.36 p	0.63 p	<2.0	---	---	38.43	14.50	23.93	---	0.1
MW-17	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	1.8	<10	<2.0	<2.0	<2.0	---	---	38.43	13.21	25.22	---	2.4
MW-17	04/21/2008	---	---	140	<0.50	<1.0	<1.0	<1.0	---	100	<10	<2.0	<2.0	<2.0	---	---	38.43	13.64	24.79	---	0.1
MW-17	07/30/2008	---	---	120	<0.50	<1.0	<1.0	<1.0	---	80	<10	<2.0	<2.0	<2.0	---	---	38.43	14.68	23.75	---	0.18

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-17	10/17/2008	---	---	55	<0.50	<1.0	<1.0	<1.0	---	29	<10	<2.0	<2.0	<2.0	---	---	38.43	15.14	23.29	---	0.62
MW-17	01/07/2009	---	---	89	<0.50	<1.0	<1.0	<1.0	---	72	<10	<2.0	<2.0	<2.0	---	---	38.43	14.50	23.93	---	1.15
MW-17	04/22/2009	---	---	58	<0.50	<1.0	<1.0	<1.0	---	52	<10	---	---	---	---	---	38.43	13.75	24.68	---	0.14
MW-17	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	62	18	<2.0	<2.0	<2.0	---	---	38.43	14.35	24.08	---	0.41
MW-17	10/30/2009	---	---	56	<0.50	<1.0	<1.0	<1.0	---	54	<10	<2.0	<2.0	<2.0	---	---	38.43	14.09	24.34	---	0.43
MW-17	01/13/2010	---	---	52	<0.50	<1.0	<1.0	<1.0	---	49	<10	<2.0	<2.0	<2.0	---	---	38.43	14.25	24.18	---	0.11
MW-17	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	39	<10	<2.0	<2.0	<2.0	---	---	38.43	12.01	26.42	---	0.47
MW-17	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	32	<10	<2.0	<2.0	<2.0	---	---	38.43	13.47	24.96	---	0.40
MW-17	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	30	<10	<2.0	<2.0	<2.0	---	---	38.43	14.48	23.95	---	0.67
MW-17	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	32	22	<1.0	<1.0	<1.0	---	---	38.43	13.23	25.20	---	0.92
MW-17	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	19	<10	<1.0	<1.0	<1.0	---	---	38.43	10.92	27.51	---	0.65
MW-17	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**22**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.43**	**12.98**	**25.45**	**---**	**1.02**
MW-17	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**21**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.43**	**13.91**	**24.52**	**---**	**0.52**
MW-18	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.24	16.62	22.62	---	---
MW-18	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	2.3	<50	<2.0	<2.0	<2.0	---	---	39.24	17.15	22.09	---	0.8
MW-18	10/16/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	2.0	<2.0	<2.0	<2.0	<2.0	---	---	39.24	17.64	21.60	---	0.4
MW-18	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	2.2	<50	<2.0	<2.0	<2.0	---	---	39.24	15.01	24.23	---	0.28
MW-18	04/16/2003	---	---	<50	0.51	0.58	0.67	1.7	---	2.3	<5.0	<2.0	<2.0	<2.0	---	---	39.24	15.61	23.63	---	0.9
MW-18	07/10/2003	0.056	---	56 g	<0.50	<0.50	<0.50	<1.0	---	2.0	<5.0	<2.0	<2.0	<2.0	---	---	39.24	16.51	22.73	---	0.1
MW-18	10/23/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.7	<5.0	<2.0	<2.0	<2.0	---	---	39.24	17.18	22.06	---	0.6
MW-18	01/29/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	3.7	<5.0	<2.0	<2.0	<2.0	---	---	39.24	15.61	23.63	---	0.9
MW-18	04/29/2004	---	---	<50	0.66	<0.5	<0.5	<1	---	5.8	5.9	<1.0	<1.0	<1.0	---	---	39.24	15.94	23.30	---	0.7
MW-18	07/27/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	1.7	<100	<10	<10	<10	---	---	39.24	16.79	22.45	---	1.1
MW-18	10/25/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	2.1	<100	<10	<10	<10	---	---	39.24	16.65	22.59	---	1.0
MW-18	01/25/2005	---	---	<50	<0.5	<0.5	<0.5	<2	---	1.5	<5	<0.5	<0.5	<0.5	---	---	39.24	15.14	24.10	---	0.9
MW-18	04/25/2005	---	---	70	<0.5	<0.5	<0.5	<0.5	---	1.8	<5	<0.5	<0.5	<0.5	---	---	39.24	14.66	24.58	---	1.4
MW-18	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	1.1	<5	<0.5	<0.5	<0.5	---	---	39.24	15.82	23.42	---	0.5
MW-18	11/01/2005	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.2	<5.0	<0.50	<0.50	<0.50	---	---	39.24	16.55	22.69	---	0.8
MW-18	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	2.8	<5.0	<2.0	<2.0	<2.0	---	---	39.24	14.75	24.49	---	2.0
MW-18	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.3	<10	---	---	---	---	---	39.24	13.00	26.24	---	0.72
MW-18	09/27/2006	---	---	<50 r	<0.50 r	<0.50 r	<0.50 r	<0.50 r	---	5.0 r	<20 r	---	---	---	---	---	39.24	15.62	23.62	---	1.76
MW-18	11/15/2006	---	---	60	<0.50	<0.50	<0.50	<0.50	---	3.7	<20	---	---	---	---	---	39.24	15.60	23.64	---	1.2
MW-18	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	4.8	<5.0	<2.0	<2.0	<2.0	---	---	39.24	15.50	23.74	---	1.15
MW-18	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	2.9	<10	<2.0	<2.0	<2.0	---	---	39.24	15.62	23.62	---	0.7
MW-18	07/06/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.6	<10	<2.0	<2.0	<2.0	---	---	39.24	16.12	23.12	---	1.43
MW-18	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	7.3	<10	<2.0	<2.0	<2.0	---	---	39.24	16.28	22.96	---	0.8
MW-18	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	3.0	<10	<2.0	<2.0	<2.0	---	---	39.24	15.09	24.15	---	1.30
MW-18	04/21/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	6.4	<10	<2.0	<2.0	<2.0	---	---	39.24	15.51	23.73	---	1.1
MW-18	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	5.2	<10	<2.0	<2.0	<2.0	---	---	39.24	16.63	22.61	---	0.93
MW-18	10/17/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.7	<10	<2.0	<2.0	<2.0	---	---	39.24	17.00	22.24	---	1.29
MW-18	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	6.9	<10	<2.0	<2.0	<2.0	---	---	39.24	16.37	22.87	---	0.12
MW-18	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	8.9	<10	---	---	---	---	---	39.24	15.25	23.99	---	1.21/1.27
MW-18	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	9.7	<10	<2.0	<2.0	<2.0	---	---	39.24	16.35	22.89	---	1.48
MW-18	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	8.0	<10	<2.0	<2.0	<2.0	---	---	39.24	15.94	23.30	---	0.46
MW-18	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	8.3	<10	<2.0	<2.0	<2.0	---	---	39.24	16.12	23.12	---	1.63
MW-18	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.5	<10	<2.0	<2.0	<2.0	---	---	39.24	14.13	25.11	---	1.06
MW-18	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	9.2	<10	<2.0	<2.0	<2.0	---	---	39.24	15.45	23.79	---	1.35
MW-18	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	---	---	39.24	16.30	22.94	---	1.22

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-18	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	10	<10 cc	<1.0	<1.0	<1.0	---	---	39.24	15.14	24.10	---	1.92
MW-18	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	9.0	<10	<1.0	<1.0	<1.0	---	---	39.24	13.00	26.24	---	1.90
MW-18	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**8.0**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**39.24**	**15.02**	**24.22**	**---**	**0.82**
MW-18	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**7.7**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**39.24**	**16.04**	**23.20**	**---**	**0.99**
MW-19	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.70	16.05	22.65	---	---
MW-19	07/17/2002	---	---	<1,000	<10	<10	<10	<10	---	10,000	<100	<10	<10	25	---	---	38.70	16.35	22.35	---	0.7
MW-19	09/13/2002	---	---	<2,000	<20	<20	<20	<20	---	10,000	---	---	---	---	---	---	38.70	16.91	21.79	---	0.8
MW-19	10/16/2002	---	---	<2,000	<20	<20	<20	<20	---	11,000	<200	<20	<20	30	---	---	38.70	16.95	21.75	---	2.1
MW-19	01/08/2003	---	---	<2,000	<20	<20	<20	<20	---	10,000	<200	<20	<20	38	---	---	38.70	14.60	24.10	---	0.43
MW-19	04/16/2003	---	---	<5,000	<50	<50	<50	<100	---	11,000	<500	<200	<200	<200	---	---	38.70	14.88	23.82	---	0.8
MW-19	07/10/2003	---	---	<5,000	<50	<50	<50	<100	---	12,000	<500	<200	<200	<200	---	---	38.70	25.40	13.30	---	1.2
MW-19	10/23/2003	---	---	<5,000	<50	<50	<50	<100	---	7,000	<500	<200	<200	<200	---	---	38.70	h	---	---	2.5
MW-19	01/29/2004	---	---	7,900	<25	<25	<25	<50	---	7,300	2,100	<100	<100	<100	---	---	38.70	h	---	---	2.7
MW-19	04/29/2004	---	---	1,400	<0.5	<0.5	<0.5	<1	---	3,200	89	<1.0	1.2	17	---	---	38.70	h	---	---	2.5
MW-19	07/27/2004	---	---	2,500	<0.5	<0.5	<0.5	<1	---	2,700	140	<10	<10	13	---	---	38.70	h	---	---	3.2
MW-19	10/25/2004	---	---	2,100	<5	<5	<5	<10	---	1,900	<1,000	<100	<100	<100	---	---	38.70	h	---	---	2.4
MW-19	01/25/2005	---	---	1,200	<0.5	<0.5	<0.5	<2	---	1,900	500	<0.5	0.59	10	---	---	38.70	h	---	---	3.2
MW-19	04/28/2005	---	---	770	<0.5	<0.5	<0.5	<0.5	---	1,100	67	<0.5	<0.5	6.3	---	---	38.70	24.43	14.27	---	3.1
MW-19	07/14/2005	---	---	850	<0.5	<0.5	<0.5	<0.5	---	890	93	<0.5	0.56	5.5	---	---	38.70	25.24	13.46	---	3.1
MW-19	11/01/2005	---	---	<500	<5.0	<5.0	<5.0	<10	---	1,700	<50	<5.0	<5.0	11	---	---	38.70	23.78	14.92	---	3.9
MW-19	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	200	7.8	<2.0	<2.0	2.7	---	---	38.70	24.91	13.79	---	4.2
MW-19	04/25/2006	---	---	12,000 g	<2.5	<5.0	<5.0	<5.0	---	780	170	---	---	---	---	---	38.70	22.92	15.78	---	0.92
MW-19	09/27/2006	---	---	230 v	<1.0	<1.0	<1.0	<1.0	---	260	53	---	---	---	---	---	38.70	14.69	24.01	---	2.01
MW-19	11/15/2006	---	---	110 v	<1.0	<1.0	<1.0	<1.0	---	5.6	6,700	---	---	---	---	---	38.70	14.83	23.87	---	2.1
MW-19	01/12/2007	---	---	160	<0.50	<0.50	<0.50	<1.0	---	110	31	<2.0	<2.0	<2.0	---	---	38.70	14.92	23.78	---	0.67
MW-19	04/23/2007	---	---	14,000 g,y	<0.50	<1.0	<1.0	<1.0	---	41	49	<2.0	<2.0	<2.0	---	---	38.70	15.18	23.52	---	1.6
MW-19	07/06/2007	---	---	3,200 g,y	<0.50	<1.0	<1.0	<1.0	---	50	120	<2.0	<2.0	<2.0	---	---	38.70	14.49	24.21	---	1.70
MW-19	10/18/2007	---	---	<50 y	<2.5	<5.0	<5.0	<5.0	---	210	<50	<10	<10	<10	---	---	38.70	---	---	---	3.5
MW-19	01/31/2008	---	---	63 g,y	<0.50	<1.0	<1.0	<1.0	---	61	<10	<2.0	<2.0	<2.0	---	---	38.70	---	---	---	4.39
MW-19	04/21/2008	---	---	2,100	<0.50	<1.0	<1.0	<1.0	---	28	<10	<2.0	<2.0	<2.0	---	---	38.70	14.03	24.67	---	0.7
MW-19	07/30/2008	---	---	1,100	<0.50	<1.0	<1.0	<1.0	---	64	25	<2.0	<2.0	<2.0	---	---	38.70	15.49	23.21	---	0.59
MW-19	10/17/2008	---	---	2,200	<0.50	<1.0	<1.0	<1.0	---	75	<10	<2.0	<2.0	<2.0	---	---	38.70	16.10	22.60	---	0.26
MW-19	01/07/2009	---	---	95	<0.50	<1.0	<1.0	<1.0	---	79	<10	<2.0	<2.0	<2.0	---	---	38.70	14.90	23.80	---	0.08
MW-19	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	16	14	---	---	---	---	---	38.70	13.67	25.03	---	0.19
MW-19	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	30	15	<2.0	<2.0	<2.0	---	---	38.70	14.77	23.93	---	0.45
MW-19	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	30	14	<2.0	<2.0	<2.0	---	---	38.70	14.65	24.05	---	0.25
MW-19	11/25/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.70	15.94	22.76	---	---
MW-19	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	28	10	<2.0	<2.0	<2.0	---	---	38.70	14.52	24.18	---	2.08
MW-19	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	1.1	<10	<2.0	<2.0	<2.0	---	---	38.70	12.62	26.08	---	0.62
MW-19	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	17	13	<2.0	<2.0	<2.0	---	---	38.70	13.90	24.80	---	0.70
MW-19	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.4	24	<2.0	<2.0	<2.0	---	---	38.70	15.85	22.85	---	2.46
MW-19	01/25/2011	---	---	1,100	12	<5.0	7.3	40	---	1,900	1,400	<10	<10	<10	---	---	38.70	13.70	25.00	---	3.67
MW-19 (D)	01/25/2011	---	---	910	8.6	<5.0	5.3	29	---	1,600	1,200	<10	<10	<10	---	---	38.70	---	---	---	---
MW-19	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	7.8	<10	<1.0	<1.0	<1.0	---	---	38.70	11.75	26.95	---	0.90
MW-19	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.70**	**13.67**	**25.03**	**---**	**0.46**
MW-19	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**1.6**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.70**	**14.48**	**24.22**	**---**	**0.75**
MW-20	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.59	16.19	22.40	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-20	07/17/2002	---	---	<2,000	<20	<20	<20	<20	---	10,000	<200	<20	<20	29	---	---	38.59	16.35	22.24	---	0.9
MW-20	09/13/2002	---	---	<2,500	<25	<25	<25	<25	---	9,300	---	---	---	---	---	---	38.59	16.79	21.80	---	0.7
MW-20	10/16/2002	---	---	<2,000	<20	<20	<20	<20	---	11,000	<200	<20	<20	27	---	---	38.59	16.83	21.76	---	0.6
MW-20	01/08/2003	---	---	<2,500	<25	<25	<25	<25	---	11,000	<250	<25	<25	<25	---	---	38.59	14.17	24.42	---	0.37
MW-20	04/16/2003	---	---	<5,000	<50	<50	<50	<100	---	9,800	<500	<200	<200	<200	---	---	38.59	14.83	23.76	---	0.8
MW-20	07/10/2003	---	---	<5,000	<50	<50	<50	<100	---	8,500	<500	<200	<200	<200	---	---	38.59	15.76	22.83	---	4.3
MW-20	10/23/2003	---	---	<1,000	<10	<10	<10	<20	---	3,800	<100	<40	<40	<40	---	---	38.59	16.42	22.17	---	0.3
MW-20	01/29/2004	---	---	3,300	<5	<5	<5	<10	---	3,600	1,300	<20	<20	<20	---	---	38.59	15.00	23.59	---	0.7
MW-20	04/29/2004	---	---	1,800	<0.5	<0.5	<0.5	<1	---	2,700	210	<1.0	<1.0	9.1	---	---	38.59	15.27	23.32	---	0.6
MW-20	07/27/2004	---	---	1,400	<0.5	<0.5	<0.5	<1	---	1,400	430	<10	<10	<10	---	---	38.59	16.17	22.42	---	0.9
MW-20	10/25/2004	---	---	1,100	<0.5	<0.5	<0.5	<1	---	1,100	340	<10	<10	<10	---	---	38.59	15.87	22.72	---	0.6
MW-20	01/25/2005	---	---	1,400	<0.5	<0.5	<0.5	<2	---	1,900	1,000	<0.5	<0.5	7.9	---	---	38.59	14.33	24.26	---	0.2
MW-20	04/28/2005	---	---	1,600	<0.5	<0.5	<0.5	<0.5	---	1,400	1,600	<0.5	0.64	6.3	---	---	38.59	13.96	24.63	---	0.9
MW-20	07/14/2005	---	---	740	<0.5	<0.5	<0.5	1.72	---	700	1,400	<0.5	<0.5	3.2	---	---	38.59	15.03	23.56	---	0.2
MW-20	11/01/2005	---	---	360	<2.0	<2.0	<2.0	<4.0	---	610	170	<2.0	<2.0	3.6	---	---	38.59	15.72	22.87	---	0.3
MW-20	01/23/2006	---	---	<1,300	<13	<13	<13	<25	---	440	<1.30	<50	<50	<50	---	---	38.59	12.20	26.39	---	1.1
MW-20	04/25/2006	---	---	120	<0.50	<1.0	<1.0	<1.0	---	320	8.5 p	---	---	---	---	---	38.59	13.70	24.89	---	0.66
MW-20	09/27/2006	---	---	310 r,v	<2.5 r	<2.5 r	<2.5 r	<2.5 r	---	410 r	<100 r	---	---	---	---	---	38.59	14.61	23.98	---	2.31
MW-20	11/15/2006	---	---	<250	<2.5	<2.5	<2.5	<2.5	---	330	<100	---	---	---	---	---	38.59	14.52	24.07	---	0.2
MW-20	01/12/2007	---	---	420	<0.50	<0.50	<0.50	<1.0	---	310	9.4	<2.0	<2.0	2.0	---	---	38.59	14.59	24.00	---	0.46
MW-20	04/23/2007	---	---	<50 y	<1.0	<2.0	<2.0	<2.0	---	170	<20	<4.0	<4.0	<4.0	---	---	38.59	14.85	23.74	---	1.2
MW-20	07/06/2007	---	---	140 g,y	<1.0	<2.0	<2.0	<2.0	---	210	<20	<4.0	<4.0	<4.0	---	---	38.59	15.01	23.58	---	1.01
MW-20	10/18/2007	---	---	<50 y	<1.0	<2.0	<2.0	<2.0	---	280	<20	<4.0	0.50 p	<4.0	---	---	38.59	15.58	23.01	---	0.4
MW-20	01/31/2008	---	---	110 g,y	<0.50	<1.0	<1.0	<1.0	---	140	18	<2.0	<2.0	<2.0	---	---	38.59	14.17	24.42	---	0.90
MW-20	04/21/2008	---	---	110	<0.50	<1.0	<1.0	<1.0	---	73	<10	<2.0	<2.0	<2.0	---	---	38.59	14.71	23.88	---	0.5
MW-20	07/30/2008	---	---	140	<0.50	<1.0	<1.0	<1.0	---	95	17	<2.0	<2.0	<2.0	---	---	38.59	15.63	22.96	---	0.39
MW-20	10/17/2008	---	---	96	<0.50	<1.0	<1.0	<1.0	---	70	11	<2.0	<2.0	<2.0	---	---	38.59	16.10	22.49	---	0.53
MW-20	01/07/2009	---	---	110	<0.50	<1.0	<1.0	<1.0	---	97	<10	<2.0	<2.0	<2.0	---	---	38.59	15.49	23.10	---	0.36
MW-20	04/22/2009	---	---	96	<0.50	<1.0	<1.0	<1.0	---	91	<10	---	---	---	---	---	38.59	14.34	24.25	---	1.60
MW-20	07/15/2009	---	---	69	<0.50	<1.0	<1.0	<1.0	---	90	15	<2.0	<2.0	<2.0	---	---	38.59	15.40	23.19	---	0.66
MW-20	10/30/2009	---	---	80	<0.50	<1.0	<1.0	<1.0	---	73	<10	<2.0	<2.0	<2.0	---	---	38.59	15.17	23.42	---	0.44
MW-20	01/13/2010	---	---	66	<0.50	<1.0	<1.0	<1.0	---	61	<10	<2.0	<2.0	<2.0	---	---	38.59	15.25	23.34	---	1.61
MW-20	04/13/2010	---	---	53	<0.50	<1.0	<1.0	<1.0	---	42	<10	<2.0	<2.0	<2.0	---	---	38.59	13.30	25.29	---	0.93
MW-20	07/08/2010	---	---	100	<0.50	<1.0	<1.0	<1.0	---	59	<10	<2.0	<2.0	<2.0	---	---	38.59	14.55	24.04	---	0.70
MW-20	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	27	<10	<2.0	<2.0	<2.0	---	---	38.59	15.58	23.01	---	0.96
MW-20	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	48	26	<1.0	<1.0	<1.0	---	---	38.59	14.38	24.21	---	0.89
MW-20	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	31	<10	<1.0	<1.0	<1.0	---	---	38.59	12.23	26.36	---	1.13
MW-20	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**25**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.59**	**14.22**	**24.37**	**---**	**0.37**
MW-20	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**28**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**38.59**	**15.20**	**23.39**	**---**	**0.79**
MW-21	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	39.04	16.57	22.47	---	---
MW-21	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	200	<50	3.2	<2.0	<2.0	---	---	39.04	16.74	22.30	---	1.5
MW-21	10/16/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	220	<50	3.2	<2.0	<2.0	---	---	39.04	17.22	21.82	---	0.3
MW-21	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	270	<50	2.7	<2.0	<2.0	---	---	39.04	14.76	24.28	---	0.69
MW-21	04/16/2003	---	---	<200	<2.0	<2.0	<2.0	<4.0	---	310	<50	<8.0	<8.0	<8.0	---	---	39.04	15.32	23.72	---	1.5
MW-21	07/10/2003	---	---	<250	<2.5	<2.5	<2.5	<5.0	---	180	<20	<10	<10	<10	---	---	39.04	16.02	23.02	---	0.3
MW-21	10/23/2003	---	---	<200	<2.0	<2.0	<2.0	<4.0	---	370	<25	<8.0	<8.0	<8.0	---	---	39.04	16.72	22.32	---	0.8
MW-21	01/29/2004	---	---	490	<2.5	<2.5	<2.5	<5	---	380	<20	<10.0	<10.0	<10.0	---	---	39.04	15.75	23.29	---	1.2
MW-21	04/29/2004	---	---	140	<0.5	<0.5	<0.5	<1	---	260	110	3.0	<1.0	<1.0	---	---	39.04	15.80	23.24	---	0.3

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-21	07/27/2004	---	---	220	<0.5	<0.5	<0.5	<1	---	220	6.2	<10	<10	<10	---	---	39.04	16.80	22.24	---	1.0
MW-21	10/25/2004	---	---	140	<0.5	<0.5	<0.5	<1	---	140	<100	<10	<10	<10	---	---	39.04	16.56	22.48	---	2.0/2.4
MW-21	01/25/2005	---	---	110	<0.5	<0.5	<0.5	<2	---	92	130	2.6	<0.5	<0.5	---	---	39.04	15.20	23.84	---	0.6
MW-21	04/28/2005	---	---	110	<0.5	<0.5	<0.5	<0.5	---	33	170	2.4	<0.5	<0.5	---	---	39.04	14.67	24.37	---	0.9
MW-21	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	21	160	2.4	<0.5	<0.5	---	---	39.04	15.68	23.36	---	0.2
MW-21	11/01/2005	---	---	110	<0.50	<0.50	<0.50	<1.0	---	17	98	2.8	<0.50	<0.50	---	---	39.04	16.33	22.71	---	0.3
MW-21	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	10	45	<2.0	<2.0	<2.0	---	---	39.04	14.46	24.58	---	1.3
MW-21	04/25/2006	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	8.5	22	---	---	---	---	---	39.04	14.41	24.63	---	0.92
MW-21	09/27/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	7.3	<20	---	---	---	---	---	39.04	14.88	24.16	---	1.46
MW-21	11/15/2006	---	---	67	<0.50	<0.50	<0.50	<0.50	---	5.5	<20	---	---	---	---	---	39.04	15.16	23.88	---	0.3
MW-21	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	5.7	<5.0	<2.0	<2.0	2.0	---	---	39.04	15.31	23.73	---	0.45
MW-21	04/23/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	4.6	<10	0.99 p	<2.0	<2.0	---	---	39.04	15.32	23.72	---	0.6
MW-21	07/06/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	2.8	<10	0.55 p	<2.0	<2.0	---	---	39.04	16.00	23.04	---	1.44
MW-21	10/18/2007	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	4.9	<10	0.90 p	<2.0	<2.0	---	---	39.04	16.00	23.04	---	0.2
MW-21	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	6.0	<10	<2.0	<2.0	<2.0	---	---	39.04	15.23	23.81	---	0.86
MW-21	04/21/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.8	<10	<2.0	<2.0	<2.0	---	---	39.04	14.98	24.06	---	0.2
MW-21	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.8	<10	<2.0	<2.0	<2.0	---	---	39.04	16.23	22.81	---	0.40
MW-21	10/17/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	2.9	<10	<2.0	<2.0	<2.0	---	---	39.04	16.55	22.49	---	0.27
MW-21	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.4	<10	<2.0	<2.0	<2.0	---	---	39.04	16.04	23.00	---	0.35
MW-21	04/22/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	5.9	26	---	---	---	---	---	39.04	14.91	24.13	---	0.21
MW-21	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	6.0	<10	<2.0	<2.0	<2.0	---	---	39.04	15.81	23.23	---	0.94
MW-21	10/30/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.9	<10	<2.0	<2.0	<2.0	---	---	39.04	15.83	23.21	---	---
MW-21	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	3.6	<10	<2.0	<2.0	<2.0	---	---	39.04	15.90	23.14	---	1.48
MW-21	04/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	6.8	<10	<2.0	<2.0	<2.0	---	---	39.04	14.07	24.97	---	0.31
MW-21	07/08/2010	---	---	54	<0.50	<1.0	<1.0	<1.0	---	8.1	<10	<2.0	<2.0	<2.0	---	---	39.04	14.94	24.10	---	0.82
MW-21	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	4.2	<10	<2.0	<2.0	<2.0	---	---	39.04	15.92	23.12	---	0.38
MW-21	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	5.0	<10	<1.0	<1.0	<1.0	---	---	39.04	14.86	24.18	---	0.89
MW-21	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	7.1	<10	<1.0	<1.0	<1.0	---	---	39.04	13.44	25.60	---	0.80
MW-21	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**6.4**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**39.04**	**14.74**	**24.30**	**---**	**0.56**
MW-21	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**4.4**	**<10**	**<1.0**	**<1.0**	**<1.0**	**---**	**---**	**39.04**	**15.54**	**23.50**	**---**	**0.85**
MW-22	06/26/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.13	16.20	21.93	---	---
MW-22	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	24	<50	<2.0	<2.0	<2.0	---	---	38.13	16.36	21.77	---	0.7
MW-22	10/16/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	34	<50	<2.0	<2.0	<2.0	---	---	38.13	16.84	21.29	---	0.4
MW-22	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	59	<50	<2.0	<2.0	<2.0	---	---	38.13	15.78	22.35	---	1.05
MW-22	04/16/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	110	<5.0	<2.0	<2.0	<2.0	---	---	38.13	15.36	22.77	---	2.2
MW-22	07/10/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	150	<5.0	<2.0	<2.0	<2.0	---	---	38.13	16.42	21.71	---	1.3
MW-22	10/23/2003	---	---	<200	<2.0	<2.0	<2.0	<4.0	---	300	<20	<8.0	<8.0	<8.0	---	---	38.13	16.41	21.72	---	0.6
MW-22	01/29/2004	---	---	750	<5	<5	<5	<10	---	500	180	<20.0	<20.0	<20.0	---	---	38.13	15.88	22.25	---	0.9
MW-22	04/29/2004	---	---	140	0.68	<0.5	<0.5	<1	---	270	6.1	<1.0	<1.0	<1.0	---	---	38.13	15.54	22.59	---	1.4
MW-22	07/27/2004	---	---	480	<0.5	<0.5	<0.5	<1	---	470	<100	<10	<10	<10	---	---	38.13	16.15	21.98	---	0.8
MW-22	10/25/2004	---	---	360	<0.5	<0.5	<0.5	<1	---	370	<100	<10	<10	<10	---	---	38.13	16.21	21.92	---	2.4
MW-22	01/25/2005	---	---	740	<0.5	<0.5	<0.5	<2	---	1,100	11	<0.5	<0.5	0.69	---	---	38.13	15.43	22.70	---	1.1
MW-22	04/28/2005	---	---	1,300	<0.5	<0.5	<0.5	<0.5	---	1,200	180	<0.5	<0.5	1.1	---	---	38.13	14.87	23.26	---	1.1
MW-22	07/14/2005	---	---	1,600 m	<0.5	<0.5	<0.5	<0.5	---	1,200	240	<0.5	<0.5	1.3	---	---	38.13	14.85	23.28	---	0.3
MW-22	11/01/2005	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	120	46	<0.50	<0.50	<0.50	---	---	38.13	15.75	22.38	---	0.3/1.9
MW-22	01/23/2006	---	---	<1,300	<13	<13	<13	<25	---	1,100	610	<50	<50	<50	---	---	38.13	14.44	23.69	---	1.1
MW-22	04/25/2006	---	---	300 g	<2.5	<5.0	<5.0	<5.0	---	500	250	---	---	---	---	---	38.13	12.26	25.87	---	0.28
MW-22	09/27/2006	---	---	850 v	<5.0	<5.0	<5.0	<5.0	---	1,300	920	---	---	---	---	---	38.13	14.89	23.24	---	1.61

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-22	11/15/2006	---	---	730 v	<5.0	<5.0	<5.0	<5.0	---	1,400	820	---	---	---	---	---	38.13	15.08	23.05	---	0.3
MW-22	01/12/2007	---	---	460	<2.5	<2.5	<2.5	<5.0	---	920	1,300	<10	<10	<10	---	---	38.13	15.23	22.90	---	0.53
MW-22	04/23/2007	---	---	59 g,y	<2.5	<5.0	<5.0	<5.0	---	550	460	<10	<10	<10	---	---	38.13	15.40	22.73	---	2.5
MW-22	07/06/2007	---	---	250 g,y	<2.5	<5.0	<5.0	<5.0	---	580	610	<10	<10	<10	---	---	38.13	15.59	22.54	---	0.92
MW-22	10/18/2007	---	---	<50 y	<2.5	<5.0	<5.0	<5.0	---	630	800	<10	<10	<10	---	---	38.13	15.82	22.31	---	0.7
MW-22	01/31/2008	---	---	120 g,y	<0.50	<1.0	<1.0	<1.0	---	160	460	<2.0	<2.0	<2.0	---	---	38.13	14.28	23.85	---	1.30
MW-22	04/21/2008	---	---	75	<0.50	<1.0	<1.0	<1.0	---	39	260	<2.0	<2.0	<2.0	---	---	38.13	15.08	23.05	---	0.9
MW-22	07/30/2008	---	---	140	<0.50	<1.0	<1.0	<1.0	---	97	220	<2.0	<2.0	<2.0	---	---	38.13	16.00	22.13	---	1.12
MW-22(D)	07/30/2008	---	---	140	<0.50	<1.0	<1.0	<1.0	---	94	230	<2.0	<2.0	<2.0	---	---	38.13	---	---	---	---
MW-22	10/17/2008	---	---	55	<0.50	<1.0	<1.0	<1.0	---	24	17	<2.0	<2.0	<2.0	---	---	38.13	16.40	21.73	---	0.38
MW-22	01/07/2009	---	---	93	<0.50	<1.0	<1.0	<1.0	---	87	74	<2.0	<2.0	<2.0	---	---	38.13	13.61	24.52	---	0.39
MW-22	04/22/2009	---	---	78	<0.50	<1.0	<1.0	<1.0	---	69	19	---	---	---	---	---	38.13	14.91	23.22	---	1.46
MW-22	07/15/2009	---	---	64	<0.50	<1.0	<1.0	<1.0	---	87	<10	<2.0	<2.0	<2.0	---	---	38.13	15.78	22.35	---	0.56
MW-22	10/30/2009	---	---	150	<0.50	<1.0	<1.0	<1.0	---	150	<10	<2.0	<2.0	<2.0	---	---	38.13	15.58	22.55	---	1.04
MW-22	01/13/2010	---	---	230	<0.50	<1.0	<1.0	<1.0	---	210	<10	<2.0	<2.0	<2.0	---	---	38.13	15.60	22.53	---	1.22
MW-22	04/13/2010	---	---	130	<1.0	<2.0	<2.0	<2.0	---	160	<20	<4.0	<4.0	<4.0	---	---	38.13	14.10	24.03	---	0.39
MW-22	07/08/2010	---	---	450	<0.50	<1.0	<1.0	<1.0	---	220	<10	<2.0	<2.0	<2.0	---	---	38.13	14.98	23.15	---	0.40
MW-22	11/09/2010	---	---	180	<1.0	<2.0	<2.0	<2.0	---	220	<20	<4.0	<4.0	<4.0	---	---	38.13	15.73	22.40	---	1.30
MW-22	01/25/2011	---	---	120	<1.0	<1.0	<1.0	<2.0	---	220	170	<2.0	<2.0	<2.0	---	---	38.13	14.72	23.41	---	0.64
MW-22	04/06/2011	---	---	260 v	<1.2	<1.2	<1.2	<2.5	---	390	<25	<2.5	<2.5	<2.0	---	---	38.13	13.20	24.93	---	1.11
MW-22	**07/21/2011**	**---**	**---**	**200 x**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**230**	**69**	**<1.0**	**<1.0**	**1.1**	**---**	**---**	**38.13**	**14.62**	**23.51**	**---**	**0.66**
MW-22	**10/11/2011**	**---**	**---**	**<200**	**<2.0**	**<2.0**	**<2.0**	**<4.0**	**---**	**170**	**<40**	**<4.0**	**<4.0**	**<4.0**	**---**	**---**	**38.13**	**15.94**	**22.19**	**---**	**0.39**
MW-23	01/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.86	13.12	25.74	---	---
MW-23	01/31/2008	---	77 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	14	<10	<2.0	<2.0	<2.0	---	---	38.86	12.38	26.48	---	2.05
MW-23	04/21/2008	---	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	14	<10	<2.0	<2.0	<2.0	---	---	38.86	13.27	25.59	---	0.1
MW-23	07/30/2008	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	12	<10	<2.0	<2.0	<2.0	---	---	38.86	14.48	24.38	---	0.24
MW-23	10/17/2008	---	<50 e	56	<0.50	<1.0	<1.0	<1.0	---	7.9	<10	<2.0	<2.0	<2.0	---	---	38.86	14.98	23.88	---	0.23
MW-23	01/07/2009	---	300 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	16	<10	<2.0	<2.0	<2.0	---	---	38.86	14.30	24.56	---	1.56
MW-23	04/22/2009	---	58 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	17	<10	---	---	---	---	---	38.86	13.05	25.81	---	1.26
MW-23	07/15/2009	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	19	<10	<2.0	<2.0	<2.0	---	---	38.86	14.20	24.66	---	0.24
MW-23	10/30/2009	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	16	<10	<2.0	<2.0	<2.0	---	---	38.86	13.98	24.88	---	0.23
MW-23	01/13/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	18	<10	<2.0	<2.0	<2.0	---	---	38.86	13.92	24.94	---	0.25
MW-23	04/13/2010	---	67 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	13	<10	<2.0	<2.0	<2.0	---	---	38.86	11.37	27.49	---	0.81
MW-23	07/08/2010	---	<50 e	57	<0.50	<1.0	<1.0	<1.0	---	14	<10	<2.0	<2.0	<2.0	<0.50	---	38.86	13.35	25.51	---	0.45
MW-23	11/09/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	11	<10	<2.0	<2.0	<2.0	<0.50	---	38.86	14.15	24.71	---	0.28
MW-23	01/25/2011	---	<48 e	<50	<0.50	<0.50	<0.50	<1.0	---	12	12	<1.0	<1.0	<1.0	<0.50	---	38.86	13.09	25.77	---	0.90
MW-23	04/06/2011	---	<48 e	<50	<0.50	<0.50	<0.50	<1.0	---	12	<10	<1.0	<1.0	<1.0	<0.50	---	38.86	10.90	27.96	---	0.84
MW-23	**07/21/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**38.86**	**12.82**	**26.04**	**---**	**1.41**
MW-23	**07/22/2011**	**---**	**<47 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**10**	**<10**	**<1.0**	**<1.0**	**<1.0**	**<0.50**	**---**	**38.86**	**---**	**---**	**---**	**---**
MW-23	**10/11/2011**	**---**	**<50 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**11**	**<10**	**<1.0**	**<1.0**	**<1.0**	**<0.50**	**---**	**38.86**	**13.61**	**25.25**	**---**	**0.47**
MW-24	01/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.80	13.92	23.88	---	---
MW-24	01/31/2008	---	820 e,g	1,100 y	2.7	<1.0	2.6	<1.0	---	31	2,100	5.4	<2.0	<2.0	---	---	37.80	11.74	26.06	---	1.10
MW-24	04/21/2008	---	110 e,g	480 y	<2.5	<5.0	<5.0	<5.0	---	30	2,500	<10	<10	<10	---	---	37.80	12.71	25.09	---	0.0
MW-24	07/30/2008	---	87 e,g	570	<2.5	<5.0	<5.0	<5.0	---	22	3,400	<10	<10	<10	---	---	37.80	13.89	23.91	---	0.13
MW-24	10/17/2008	---	160 e,g	170	<1.0	<2.0	<2.0	<2.0	---	29	2,700	<4.0	<4.0	<4.0	---	---	37.80	14.30	23.50	---	0.32
MW-24	01/07/2009	---	260 e,g	290	0.62	<1.0	<1.0	<1.0	---	31	3,400	4.8	<2.0	<2.0	---	---	37.80	13.56	24.24	---	0.09
MW-24	04/22/2009	---	<50 e	370	<2.5	<5.0	<5.0	<5.0	---	38	5,000	---	---	---	---	---	37.80	12.39	25.41	---	0.13

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
MW-24	07/15/2009	---	55 e	210	0.67	<1.0	<1.0	<1.0	---	33	3,500	4.1	<2.0	<2.0	---	---	37.80	13.49	24.31	---	0.20
MW-24	10/30/2009	---	<50 e	510	<1.0	<2.0	<2.0	<2.0	---	41	5,700	5.1	<4.0	<4.0	---	---	37.80	13.23	24.57	---	0.18
MW-24	01/13/2010	---	<50 e	460	<1.0	<2.0	<2.0	<2.0	---	54	5,200	5.3	<4.0	<4.0	---	---	37.80	13.25	24.55	---	0.80
MW-24	04/13/2010	---	55 e,g	<500	<5.0	<10	<10	<10	---	45	7,600	<20	<20	<20	---	---	37.80	10.83	26.97	---	0.88
MW-24	07/08/2010	---	65 e,g	700	<5.0	<10	<10	<10	---	56	7,000	<20	<20	<20	<5.0	---	37.80	12.67	25.13	---	0.37
MW-24	11/09/2010	---	72 e,g	310	<2.5	<5.0	<5.0	<5.0	---	55	8,900	<10	<10	<10	<2.5	---	37.80	13.58	24.22	---	0.82
MW-24	01/25/2011	---	64 e	520	<5.0	<5.0	<5.0	<10	---	76	6,300	<10	<10	<10	<5.0	---	37.80	12.37	25.43	---	0.56
MW-24	04/06/2011	---	80 e	<500	<5.0	<5.0	<5.0	<10	---	71	8,800	<10	<10	<10	<5.0	---	37.80	10.11	27.69	---	0.66
MW-24 (D)	04/06/2011	---	96 e	<1,000	<10	<10	<10	<20	---	64	8,100	<20	<20	<20	---	---	37.80	---	---	---	---
MW-24	**07/21/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**37.80**	**12.12**	**25.68**	**---**	**0.46**
MW-24	**07/22/2011**	**---**	**<48 e**	**1,100**	**<5.0**	**<5.0**	**<5.0**	**<10**	**---**	**66**	**8,800**	**<10**	**<10**	**<10**	**<5.0**	**---**	**37.80**	**---**	**---**	**---**	**---**
MW-24	**10/11/2011**	**---**	**61 e**	**610**	**<5.0**	**<5.0**	**<5.0**	**<10**	**---**	**63**	**8,900**	**<10**	**<10**	**<10**	**<5.0**	**---**	**37.80**	**12.95**	**24.85**	**---**	**0.37**
MW-25	01/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.90	12.42	26.48	---	---
MW-25	01/31/2008	---	810 e,g	<50 y	<0.50	<1.0	<1.0	<1.0	---	20	<10	<2.0	<2.0	<2.0	---	---	38.90	13.13	25.77	---	1.65
MW-25	04/21/2008	---	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	13	<10	<2.0	<2.0	<2.0	---	---	38.90	14.33	24.57	---	0.1
MW-25	07/30/2008	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	9.9	<10	<2.0	<2.0	<2.0	---	---	38.90	15.39	23.51	---	1.26
MW-25	10/17/2008	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	8.1	<10	<2.0	<2.0	<2.0	---	---	38.90	15.93	22.97	---	2.98
MW-25	01/07/2009	---	110 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	14	<10	<2.0	<2.0	<2.0	---	---	38.90	15.14	23.76	---	0.29
MW-25	04/22/2009	---	52 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	12	<10	---	---	---	---	---	38.90	14.05	24.85	---	0.79
MW-25	07/15/2009	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	11	<10	<2.0	<2.0	<2.0	---	---	38.90	15.15	23.75	---	0.28
MW-25	10/30/2009	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	10	<10	<2.0	<2.0	<2.0	---	---	38.90	14.70	24.20	---	0.48
MW-25	01/13/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	11	<10	<2.0	<2.0	<2.0	---	---	38.90	14.81	24.09	---	0.23
MW-25	04/13/2010	---	60 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	8.2	<10	<2.0	<2.0	<2.0	---	---	38.90	12.26	26.64	---	0.79
MW-25	07/08/2010	---	<50 e	54	<0.50	<1.0	<1.0	<1.0	---	13	<10	<2.0	<2.0	<2.0	<0.50	---	38.90	14.28	24.62	---	0.74
MW-25	11/09/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	7.4	<10	<2.0	<2.0	<2.0	<0.50	---	38.90	15.30	23.60	---	0.63
MW-25	01/25/2011	---	<49 e	<50	<0.50	<0.50	<0.50	<1.0	---	8.6	<10 cc	<1.0	<1.0	<1.0	0.53	---	38.90	13.90	25.00	---	0.75
MW-25	04/06/2011	---	<49 e	<50	<0.50	<0.50	<0.50	<1.0	---	8.1	<10	<1.0	<1.0	<1.0	<0.50	---	38.90	11.42	27.48	---	1.03
MW-25	**07/21/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**38.90**	**13.93**	**24.97**	**---**	**0.34**
MW-25	**07/22/2011**	**---**	**<48 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**6.7**	**<10**	**<1.0**	**<1.0**	**<1.0**	**<0.50**	**---**	**38.90**	**---**	**---**	**---**	**---**
MW-25	**10/11/2011**	**---**	**<50 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**6.9**	**<10**	**<1.0**	**<1.0**	**<1.0**	**<0.50**	**---**	**38.90**	**14.64**	**24.26**	**---**	**0.67**
MW-25 (D)	**10/11/2011**	**---**	**<50 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**6.4**	**<10**	**---**	**---**	**---**	**---**	**---**	**38.90**	**---**	**---**	**---**	**---**
P-1	01/11/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.87	13.21	25.66	---	---
P-1	01/31/2008	---	480 e,g	64 y	0.63	<1.0	<1.0	<1.0	---	68	17,000	4.1	<2.0	<2.0	---	---	38.87	12.37	26.50	---	1.56
P-1	04/21/2008	---	<50 e	360 g,y	<12	<25	<25	<25	---	80	15,000	<50	<50	<50	---	---	38.87	13.26	25.61	---	0.1
P-1	07/30/2008	---	<50 e	1,500	<0.50	<1.0	<1.0	<1.0	---	93	22,000	3.1	<2.0	<2.0	---	---	38.87	14.49	24.38	---	0.38
P-1	10/17/2008	---	54 e	770	<2.5	<5.0	<5.0	<5.0	---	79	17,000	<10	<10	<10	---	---	38.87	14.98	23.89	---	0.47
P-1	01/07/2009	---	<50 e	590	<2.5	<5.0	<5.0	<5.0	---	64	16,000	<10	<10	<10	---	---	38.87	14.39	24.48	---	1.71
P-1	04/22/2009	---	<50 e	1,000	<10	<20	<20	<20	---	150	18,000	---	---	---	---	---	38.87	13.27	25.60	---	0.06
P-1	07/15/2009	---	<50 e	600	<0.50	<1.0	<1.0	<1.0	---	270	16,000	2.7	<2.0	<2.0	---	---	38.87	14.23	24.64	---	1.02
P-1	10/30/2009	---	<50 e	1,300	<12	<25	<25	<25	---	160	21,000	<50	<50	<50	---	---	38.87	14.10	24.77	---	0.24
P-1	01/13/2010	---	<50 e	1,500	<12	<25	<25	<25	---	150	23,000	<50	<50	<50	---	---	38.87	13.87	25.00	---	1.07
P-1	04/13/2010	---	56 e,g	<1,200	<12	<25	<25	<25	---	230	22,000	<50	<50	<50	---	---	38.87	11.06	27.81	---	1.12
P-1	07/08/2010	---	<50 e	960	<0.50	<1.0	<1.0	<1.0	---	170	26,000	4.6	<2.0	<2.0	0.53	---	38.87	13.25	25.62	---	0.74
P-1	11/09/2010	---	<50 e	390	<0.50	<1.0	<1.0	<1.0	---	43	29,000	2.1	<2.0	<2.0	0.51	---	38.87	14.26	24.61	---	1.47
P-1	01/25/2011	---	<50 e	<2,500	<25	<25	<25	<50	---	<50	15,000	<50	<50	<50	<25	---	38.87	12.98	25.89	---	0.75
P-1	04/06/2011	---	79 e	<1,000	<10	<10	<10	<20	---	49	14,000	<20	<20	<20	<10	---	38.87	10.67	28.20	---	0.83
P-1	**07/21/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**38.87**	**12.87**	**26.00**	**---**	**0.90**

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
P-1	**07/22/2011**	**---**	**<49 e**	**<1,000**	**<10**	**<10**	**<10**	**<20**	**---**	**73**	**20,000**	**<20**	**<20**	**<20**	**<10**	**---**	**38.87**	**---**	**---**	**---**	**---**
P-1	**10/11/2011**	**---**	**<50 e**	**<2,000**	**<20**	**<20**	**<20**	**<40**	**---**	**69**	**28,000**	**<40**	**<40**	**<40**	**<20**	**---**	**38.87**	**13.56**	**25.31**	**---**	**0.40**
TB	01/04/2001	---	---	<50	<0.5	<0.5	<0.5	<1.0	<5	---	---	---	---	---	---	---	---	---	---	---	---
TB	07/20/2001	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
TB	01/10/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
TB	07/17/2002	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
TB	01/08/2003	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
TB	07/10/2003	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	---	---	---	---	---	---	---
TB	01/29/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
TB	07/27/2004	---	---	<50	<0.5	<0.5	<0.5	<1	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
TB	01/25/2005	---	---	<50	<0.5	<0.5	<0.5	<2	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
TB	07/14/2005	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
TB	01/23/2006	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	---	---	---	---	---	---
TB	09/27/2006	---	---	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<20	---	---	---	---	---	---	---	---	---	---
TB	01/12/2007	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	---	---	---	---	---	---
TB	07/06/2007	---	---	<50 y	---	---	---	---	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	01/31/2008	---	---	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	07/30/2008	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	01/07/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	07/15/2009	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	01/13/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	07/08/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	11/09/2010	---	---	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	01/25/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	04/06/2011	---	---	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
TB	**07/21/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
TB	**10/11/2011**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
EB	01/04/2001	---	<50 e	82	<0.5	<0.5	<0.5	<1.0	34	<2	---	---	---	---	---	---	---	---	---	---	---
EB	07/20/2001	---	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
EB	01/10/2002	---	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
EB	07/17/2002	---	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
EB	01/08/2003	---	<50 e	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	---	---	---	---	---	---	---
EB	07/10/2003	---	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	---	---	---	---	---	---	---
EB	01/29/2004	---	<500 e	<50	<0.5	<0.5	<0.5	<1	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
EB	07/27/2004	---	<500 e	<50	<0.5	<0.5	<0.5	<1	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
EB	01/25/2005	---	<500	<50	<0.5	<0.5	<0.5	<2	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
EB	07/14/2005	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<0.5	---	---	---	---	---	---	---	---	---	---	---
EB	01/23/2006	---	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	---	---	---	---	---	---
EB	09/27/2006	---	<51 t	<50	<0.50	<0.50	<0.50	<0.50	---	<0.50	<20	---	---	---	---	---	---	---	---	---	---
EB	01/12/2007	---	<50 e	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	---	---	---	---	---	---	---	---	---	---
EB	07/06/2007	---	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	01/31/2008	---	<50 e	<50 y	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	07/30/2008	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	01/07/2009	---	72 e,g	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	07/15/2009	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	17	---	---	---	---	---	---	---	---	---	---
EB	01/13/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	07/08/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*
EB	11/09/2010	---	<50 e	<50	<0.50	<1.0	<1.0	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	01/25/2011	---	<47 e	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	04/06/2011	---	<47 e	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	---	---	---
EB	**07/21/2011**	**---**	**<51 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
EB	**10/11/2011**	**---**	**200 e**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
SV-3	11/12/2001	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SV-3	11/14/2001	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
O&G = Total recoverable petroleum hydrocarbons or oil and grease by EPA Method 1664A unless otherwise noted.
TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
TPHg= Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 20, 2001, analyzed by EPA Method 8015 unless otherwise noted
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 20, 2001 analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by method noted
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
Total Lead analyzed by EPA Method 200.8.
TOC = Top of casing elevation, in feet relative to mean sea level
SPH = Separate-phase hydrocarbon
GW = Groundwater
DO = Dissolved oxygen (post purge reading unless otherwise noted)
mg/L = Milligrams per liter
µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
ND = Not detected. Reporting limit unknown.
--- = Not analyzed or not available
(D) = Duplicate sample
TB = Trip blank
EB = Equipment blank
n/n = Pre-/post-purge dissolved oxygen reading
n/n/n = Pre-/mid-/post-purge dissolved oxygen reading

d = Above ground DO; probe did not fit down well.
e = TPHd with Silica Gel Cleanup.
f = SPHs present in well, no sample collected. Unable to measure SPH.
g = Hydrocarbon does not match pattern of laboratory's standard.
h = Unable to measure depth to water.
i = Top of casing reduced by 0.12 feet on January 25, 2005 due to wellhead maintenance.
k = Samples analyzed for Oil and Grease by SM 5520.
m = Estimated value between method detection limit and practical quantitation limit.
n = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's Diesel standard.
p = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
r = There was insufficient preservative to reduce the sample pH to less than 2. The sample was analyzed within 14 days of sampling but beyond the 7 days recommended for benzene, toluene, and ethylbenzene.

TABLE 2

GROUNDWATER DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Well ID	*Date*	*O&G (mg/L)*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*Total Lead (mg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*	*SPH Thickness (ft)*	*DO Reading (mg/L)*

t = Sample analyzed beyond the EPA recommended holding time.
v = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.
w = Sample received and analyzed without chemical preservation
x = Hydrocarbon result partly due to individual peak(s) in quantitation range
y = Analyzed by EPA Method 8015B (M).
z = The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons are also present (or were detected).
cc = Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the compound's retention time and the presence of a single mass ion.
** = Gauged from gauging access hole.

When SPHs are present, groundwater elevation is corrected by the relation: corrected groundwater elevation = (TOC elevation) - (depth to water) + (0.8 x SPH thickness).
Wells MW-13 through MW-21 surveyed by PLS Surveys, Inc. on June 13, 2002.
Wells MW-18 through P-1 surveyed by VCL Surveys on August 6, 2008

TABLE 3

PROPOSED GROUNDWATER MONITORING SCHEDULE
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Monitoring Well	*Depth to Groundwater*	*TRPH (1664A)*	*TPHd (8015M)*	*TPHg (8260B)*	*BTEX (8260B)*	*Fuel Oxygenates (8260B)*						*1,2-DCA (8260B)*	*Total Lead (ICPMS 200.8)*	*Dissolved Lead (ICPMS 200.8)*
						MTBE	*DIPE*	*ETBE*	*TAME*	*TBA*	*Ethanol*			
MW-1	Annually	NA	Annually	Annually	Annually	Annually	NA	NA	NA	NA	NA	NA	NA	Annually
*MW-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
*MW-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	Semiannually	NA	Semiannually	Semiannually	Annually	Annually	NA	NA	NA	NA	NA	NA	NA	NA
*MW-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	Annually	NA	Annually	NA	NA	Annually	NA	NA	NA	NA	NA	NA	NA	Annually
MW-7	Annually	NA	Annually	Annually	Annually	Annually	NA	NA	NA	Annually	NA	NA	NA	NA
MW-8	Quarterly	NA	Semiannually	Semiannually	Annually	Quarterly	Annually	Annually	Annually	Quarterly	NA	NA	NA	NA
MW-9	Annually	NA	NA	Annually	Annually	Annually	NA	NA	NA	Annually	NA	NA	NA	NA
MW-10	Quarterly	NA	Quarterly	Quarterly	Quarterly	Quarterly	Annually	Annually	Annually	Quarterly	NA	NA	NA	Semiannually
MW-11	Semiannually	NA	Annually	Semiannually	Annually	Semiannually	Annually	Annually	Annually	Semiannually	NA	NA	NA	Semiannually
*MW-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	Annually	NA	Annually	Annually	Annually	Annually	NA	NA	NA	Annually	NA	NA	NA	Annually
MW-14	Annually	NA	NA	Annually	Annually	Annually	NA	NA	NA	Annually	NA	NA	NA	NA
MW-15	Quarterly	NA	NA	Quarterly	Quarterly	Quarterly	Annually	Annually	Annually	Quarterly	NA	NA	NA	NA
MW-17	Semiannually	NA	NA	Semiannually	Semiannually	Semiannually	NA	NA	NA	Semiannually	NA	NA	NA	NA
MW-18	Annually	NA	NA	Annually	Annually	Annually	NA	NA	NA	Annually	NA	NA	NA	NA
MW-19	Annually	NA	NA	Annually	Annually	Annually	NA	NA	NA	Annually	NA	NA	NA	NA
MW-20	Semiannually	NA	NA	Semiannually	Semiannually	Semiannually	NA	NA	NA	Semiannually	NA	NA	NA	NA
MW-21	Semiannually	NA	NA	Semiannually	Semiannually	Semiannually	NA	NA	NA	Semiannually	NA	NA	NA	NA
MW-22	Quarterly	NA	NA	Semiannually	Semiannually	Quarterly	NA	NA	NA	Semiannually	NA	NA	NA	NA
MW-23	Semiannually	NA	Annually	Annually	Annually	Semiannually	NA	NA	NA	Annually	NA	NA	NA	NA
MW-24	Quarterly	NA	Semiannually	Semiannually	Semiannually	Quarterly	Annually	Annually	Annually	Quarterly	NA	NA	NA	NA
MW-25	Semiannually	NA	Annually	Annually	Annually	Semiannually	NA	NA	NA	Annually	NA	NA	NA	NA
P-1	Quarterly	NA	Semiannually	Quarterly	Annually	Quarterly	Annually	Annually	Annually	Quarterly	NA	NA	NA	NA
Duplicate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Equipment Blank	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
TRPH = Total recoverable petroleum hydrocarbons or oil and grease
TPHd = Total petroleum hydrocarbons as diesel
TPHg = Total petroleum hydrocarbons as gasoline
BTEX = Benzene, toluene, ethylbenzene and total xylenes
MTBE = Methyl tertiary-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary-butyl ether
TAME = Tertiary-amyl methyl ether
TBA = Tertiary-butyl alcohol
1,2-DCA = 1,2-Dichloroethane
ICPMS = Inductively Coupled Plasma - Mass Spectrometry
NA = Not applicable or not analyzed.
Semiannual groundwater monitoring performed during the first and third quarters; annual monitoring performed during the third quarter.
Highlighted cell indicates a change to current schedule shown in Table 1.
*CRA proposes to discontinue groundwater monitoring and properly destroy well.

APPENDIX A

SITE HISTORY

SITE HISTORY

Summary of On-site Releases: Between 1972 and 1992, eight on-site releases were documented. The releases were generally located in four areas: (1) within the Tank Farm near well MW-4, (2) between Tanks 320 and 260, (3) the vapor recovery unit (near well MW-10), and (4) the transmix tank.

1983 and 1984 Underground Storage Tank (UST) Removals: During December 1983 and January 1984, a preliminary assessment was performed to identify historical UST leaks and determine the potential extent of excavation activities. During December 1983, an inactive 10,000-gallon UST used for storing ethylene glycol was removed. Soil samples collected from beneath the UST at unspecified depths contained tetrachloroethylene at 0.054 and 0.037 milligrams per kilogram (mg/kg). No other analytes were detected. During January 1984, a 15,000-gallon polyisobutyleneamine (PIBA) UST was removed. The soil sampled collected from beneath the UST at 2 feet below grade (fbg) contained 0.021 mg/kg benzene. A sample collected at 4 fbg did not contain any volatile organic constituents. Ecology and Environment, Inc.'s October 28, 1987 *Preliminary Assessment* letter summarizes the results of these investigations.

1988 and 1989 Subsurface Investigations: During March 1988, wells MW-1 through MW-9 were installed, and during November 1989, Law Engineering, Inc. (Law) installed wells MW-10, MW-11, and MW-12. The investigation results indicated that the site is underlain by up to 13 feet of silt, clayey silt, and silty clay. These soils are underlain by clay. Soil samples collected from the unsaturated zone soils (approximately 5 to 15 fbg) contained up to 510 mg/kg total petroleum hydrocarbons as gasoline (TPHg). Maximum benzene concentrations were 2.5 mg/kg. Soil samples collected below 15 fbg were not analyzed for benzene, toluene, ethylbenzene, or total xylenes (BTEX). Law's January 29, 1990 *Report of Monitoring Well Installation* presents installation details for MW-10, MW-11, and MW-12.

1992 Transmix UST Investigation: On February 13, 1992, Groundwater Technology, Inc. collected three soil samples (Slop 1, Slop 3, and Slop 4) at 3 and 5 fbg immediately adjacent to a 4,000-gallon transmix tank in response to a reported release. Up to 3,800 mg/kg TPHg and 58 mg/kg benzene were detected in the soil samples.

1993 Soil Vapor Extraction (SVE) Test: During June 1993, Pacific Environmental Group, Inc. (PEG) performed an SVE test on well MW-4, located within the Tank Farm, and well MW-10, located near the vapor recovery unit. The SVE test results indicated that this technology was suitable for remediating impacted soils. PEG's September 30, 1993 *Site*

Cleanup Requirements, RWQCB Order No. 93-038, Provision C.4, Technical Report – Proposed Remedial Alternatives summarizes the SVE test results.

1993 Subsurface Investigation: During September 1993, PEG installed well MW-13 and investigated the former ethylene glycol UST (boring S-A), the transmix UST (boring S-B), the former PIBA tank (boring S-C), and the area between Tanks 320 and 260 (S-D). The results indicated that petroleum constituents were present in unsaturated zone soils near the transmix UST, the former PIBA tank, and between Tanks 320 and 260. Petroleum constituents near the transmix and PIBA tanks did not extend below 10 fbg. Low level petroleum constituents were detected at a depth corresponding to the groundwater surface between Tanks 320 and 260. No petroleum constituents were detected in soil samples collected from beneath the former ethylene glycol UST or in soil samples collected from well MW-13. PEG's April 15, 1994 *Site Assessment Report* provides investigation details.

1995-1999 SVE Remediation: During October 1995, PEG installed five SVE wells (SV-1 through SV-5). The vapor wells targeted remediation of unsaturated soils near the vapor recovery unit, the transmix tank, the former PIBA tank, between Tanks 320 and 260, and near well MW-4. The SVE system was also connected to wells MW-4 and MW-10, which historically have contained the highest petroleum constituent concentrations. Operations began in December 1995 and continued periodically through January 1999. The SVE system removed approximately 986.6 pounds of TPHg and 15.34 pounds of benzene. IT Group's (IT's) April 16, 1999 *Semiannual Report – First Half of 1999, Annual Report 1998* summarizes the SVE system operations.

1996 Subsurface Investigation: In April 1996, PEG drilled three soil borings (SB-4, SB-5, and SB-6) in the area of the diesel and PIBA USTs. No BTEX or methyl tertiary-butyl ether (MTBE) was detected in soil samples. Up to 7.0 mg/kg total petroleum hydrocarbons as diesel (TPHd) was detected in soil samples.

1998 UST Removal and Excavation: In April 1998, Cambia Environmental Technology, Inc. (Cambria) observed the removal of a 12,000-gallon diesel UST, piping, and dispensers. Cambria collected soil samples from the excavations which contained up to 3,300 mg/kg TPHd, 0.77 mg/kg benzene, 2.4 mg/kg toluene, 1.2 mg/kg ethylbenzene, and 9.0 mg/kg total xylenes. A grab groundwater sample from the excavation contained 2,800 micrograms per liter (μg/L) TPHd and 1.9 μg/L total xylenes. Following receipt of initial soil sample results, approximately 200 cubic yards of soil was excavated from the dispenser area to remove soils with TPHd concentrations higher than 1,000 mg/kg. The final excavation dimensions were 28 feet long by 19 feet

wide, and the final depth was approximately 12 fbg. Details of the UST removal and excavation are presented in Cambria's June 26, 1998 *UST Removal Report.*

1999-2008 Groundwater Extraction (GWE) Remediation: Beginning in September 1999, temporary GWE was initiated from wells MW-8 and MW-10, located near the vapor recovery unit using a vacuum truck. During 2000, pumps were installed in well MW-10 MW-11. The water was pumped to an aboveground storage tank (AST) for storage prior to being hauled to Shell's Martinez refinery for treatment. In June 2003, well MW-19, located on the Conway property, was added to the GWE system and in January 2006, well MW-15, located down gradient of the vapor recovery tank area, was converted to a GWE well. In 2007 and 2008, the extracted groundwater was treated and discharged to the storm drain under a National Pollutant Discharge Elimination System (NPDES) Discharge permit. The GWE system was shut down during the fourth quarter of 2008. Approximately 5,252,766 gallons of groundwater were extracted containing an estimated 796.4 pounds of TPHg, 13.8 pounds of benzene, and 790.4 pounds of MTBE. The NPDES permit was rescinded during October 2011.

1999 Additive AST Investigation: During September 1999, a routine inspection identified impacted soil in the vicinity of the two additive ASTs. The area around the ASTs was excavated to a maximum depth of approximately 6 fbg to remove the impacted soil. Toxichem Management Systems, Inc. (Toxichem) collected soil samples from the limits of the excavation. Based on these results, the area was over-excavated. and Toxichem collected soil samples at the limits of the excavation. Soil samples collected following over-excavation contained up to 5,500 mg/kg TPHd and 5,100 mg/kg TPHg (both in sample 5X@4.5'). Toxichem then drilled two hand-auger borings (HA-1 and HA-2) where the highest petroleum constituent concentrations were detected. Soil samples were collected from the borings at 10 to 17.5 fbg, which contained up to 13,800 mg/kg total petroleum hydrocarbons as motor oil, 178 mg/kg TPHd, and 515 mg/kg TPHg. Grab groundwater samples from the borings contained up to 21,800 µg/L TPHg, 230 µg/L benzene, and 9.5 µg/L MTBE. Details of this investigation are provided in Toxichem's March 20, 2000 *Annual Report – Fourth Quarter 2009 including First Quarter 2000 Monitoring Results and Various Investigations*.

2000 Vapor AST Investigation: During January 2000, Toxichem drilled two hand-auger soil borings (B-1 and B-2) to investigate subsurface conditions near the vapor recovery tank. As detailed in The IT Group, Inc.'s April 16, 1999 *Semiannual Report – First Half of 1999 and Annual Report* 1998, a leaking pipeline had been observed in the area (near well MW-10) which was capped to stop the leak. The investigation results indicated that there were no observable leaks in the product dispensing and recovery lines, and line

testing indicated that the lines were tight. No TPHg or MTBE were detected in soil samples collected from the borings.

During November 2000, Toxichem drilled 11 temporary wells (GP-1 through GP-11) to determine the source of MTBE in groundwater near the vapor recovery tank. The well borings were located in three transects: one up gradient of well MW-10, one near well MW-10, and one down gradient near well MW-11. Soil samples from the temporary well borings contained up to 1,030 mg/kg TPHg (GP-2 at 17.5 fbg), 9.08 mg/kg benzene (GP-2 at 17.5 fbg), and 79.5 mg/kg MTBE (GP-2 at 19.5 fbg). Grab groundwater samples from the temporary wells contained up to 817,000 µg/L TPHg, 12,000 µg/L benzene, 1,020,000 µg/L MTBE, 7,270,000 µg/L 1,2,4-trimethylbenzene, and 100,000 µg/L ethylene glycol. Toxichem's April 9, 2001 *Annual Report – 2000 Including First Quarter 2001 Monitoring Results* presents details of this investigation.

2001 Subsurface Investigation: During September 2001, Toxichem drilled one on-site boring transect (GP-12 and GP-13) and three off-site boring transects (GP-14 through GP-18, GP-19 through GP-22, and GP-23 through GP-28) to define the extent of MTBE in groundwater. Grab groundwater samples from the borings contained up to 1,400 µg/L MTBE (GP-15). The transects defined the extent of MTBE to below 14 µg/L down gradient and horizontally. Results of this investigation are presented in Toxichem's July 8, 2002 *Annual Summary Report – Including Fourth Quarter 2001 through Second Quarter 2002 Monitoring Results*.

2001 Soil Excavation: During October 2001, an additives release occurred within the Tank Farm near Tanks 260, 320, and 800. Soil was excavated and Toxichem collected ten soil samples (EX-1 through EX-10) from the limits of the excavation. Based on the initial soil sample results, additional excavation was conducted in the area of EX-4 and Toxichem collected an additional soil sample (EX-4B). Approximately 250 cubic yards of soil were excavated to depths ranging from approximately 0.5 to 3 fbg. Results of this investigation are presented in Toxichem's July 8, 2002 *Annual Summary Report – Including Fourth Quarter 2001 through Second Quarter 2002 Monitoring Results*.

2002 Well Installations: During May 2002, two on-site wells (MW-14 and MW-15) and six off-site wells (MW-17 through MW-22) were installed. These wells were installed based on the results of the 2001 and 2002 investigations.

2002 Well Pump Test: On July 2, 2002, Toxichem performed a constant rate discharge test using well MW-10. The average pumping rate during the test was 1.4 gallons per minute (gpm) over approximately 2.8 days. The estimated horizontal capture radius

was 80 feet perpendicular to the groundwater flow direction with a down-gradient capture extent of 70 feet (Toxichem, April 7, 2003).

2007 Well Installation: During December 2007, Conestoga-Rovers & Associates (CRA) installed three groundwater monitoring wells (MW-23, MW-24, and MW-25) and one piezometer (P-1) to assist with horizontal plume definition and evaluating groundwater capture. Soil samples from well MW-24 and piezometer P-1 contained up to 8.1 mg/kg TPHd, 130 mg/kg TPHg, 0.021 mg/kg benzene, and 2.4 mg/kg tertiary-butyl alcohol (TBA). Well installation details are presented in CRA's June 24, 2008 *Site Investigation Report*.

2009 Well Pump Tests: During December 2009, CRA conducted step discharge testing of wells MW-10 and MW-15 to estimate the aquifer yield, constant rate testing of well MW-19 to evaluate the extent of groundwater drawdown and hydraulic capture zone, and constant rate testing of well MW-10 to estimate aquifer hydraulic conductivity and transmissivity. The aquifer pump test data indicated that yields from the aquifer in the vicinity of wells MW-10, MW-15, and MW-19 are approximately 4.0 gpm, 1.2 gpm, and 0.5 gpm, respectively. This variable yield from different locations on site indicates that heterogeneities in the subsurface exist and results cannot be extrapolated to other areas on site with confidence. CRA's March 26, 2010 *Aquifer Pump Test Report* presents pumping test details.

2010 Subsurface Investigation: During February 2010, CRA drilled six soil borings (GP-29 through GP-34) to evaluate soil conditions near the underground fuel pipeline located between wells MW-10 and MW-15. Two proposed borings (GP-35 and GP-36) located near the vapor recovery unit could not be completed safely to 20 fbg, due to the presence of an underground pipeline. Only one TPHg soil detection (590 mg/kg) in boring GP-31 at 14.5 fbg and ethylbenzene detections in GP-31 at 14.5 and 17.5 fbg exceeded the San Francisco Bay Regional Water Quality Control Board environmental screening levels for soil where groundwater is not a drinking water source[1]. CRA's May 7, 2010 *Subsurface Investigation Report* provides details of the investigation.

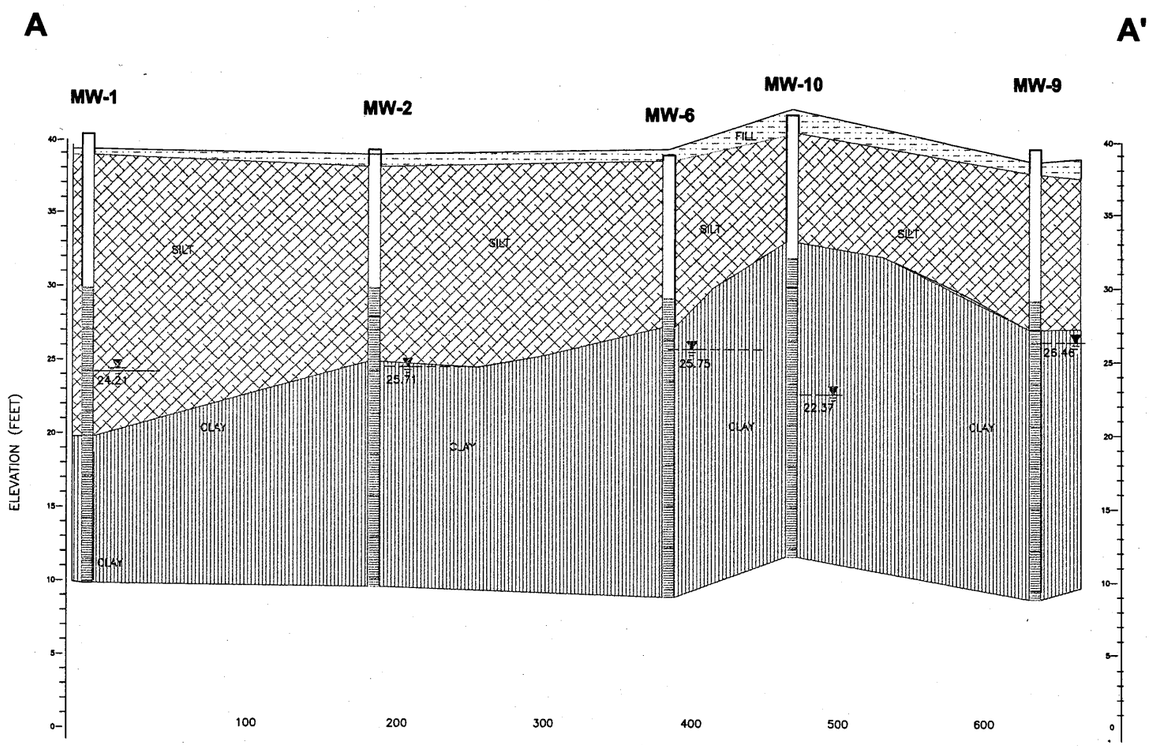
Groundwater Monitoring Program: Groundwater monitoring has been conducted since 1988. During the fourth quarter of 2011, the highest groundwater elevation was 26.32 feet above mean sea level (ft MSL) measured in well MW-14, and the lowest groundwater elevation was 22.19 ft MSL measured in well MW-22. The groundwater flow direction was northwest, consistent with historical norms, and the approximate

[1] Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]

hydraulic gradient was 0.007. Separate-phase hydrocarbons (SPHs) have historically been measured in well MW-10, with the most recent SPH detection during July 2005 (0.04 feet). Well MW-4 also contained a trace of SPHs during April 1990. During the fourth quarter of 2011, wells contained up to 15,000 μg/L TPHd (during the third quarter of 2011), 7,600 μg/L TPHg, 400 μg/L benzene, 4,000 μg/L MTBE, and 42,000 μg/L TBA.

APPENDIX B

CROSS SECTIONS AND EXPLORATORY BORING LOGS



LEGEND

GROUNDWATER ELEVATION MEASURED 7/14/05

WELL SCREEN

CLAY

SILT

SAND

FILL

50 0 100'

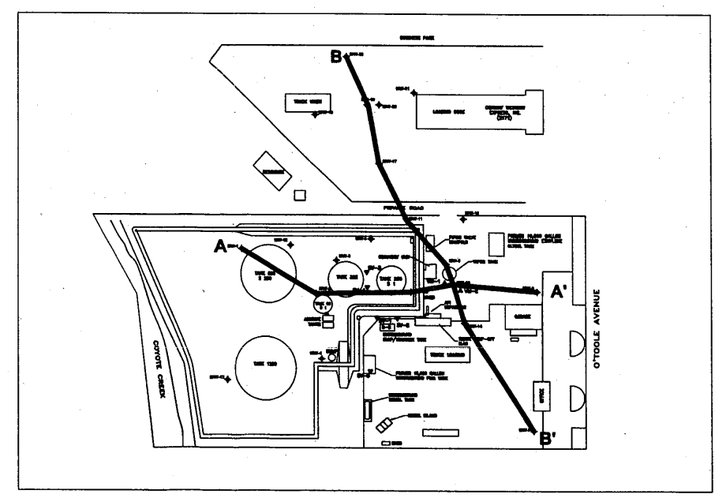
APPROXIMATE HORIZONTAL SCALE IN FEET

1"=100'

5 0 10

APPROXIMATE VERTICAL SCALE IN FEET

1"=10'



150 0 300

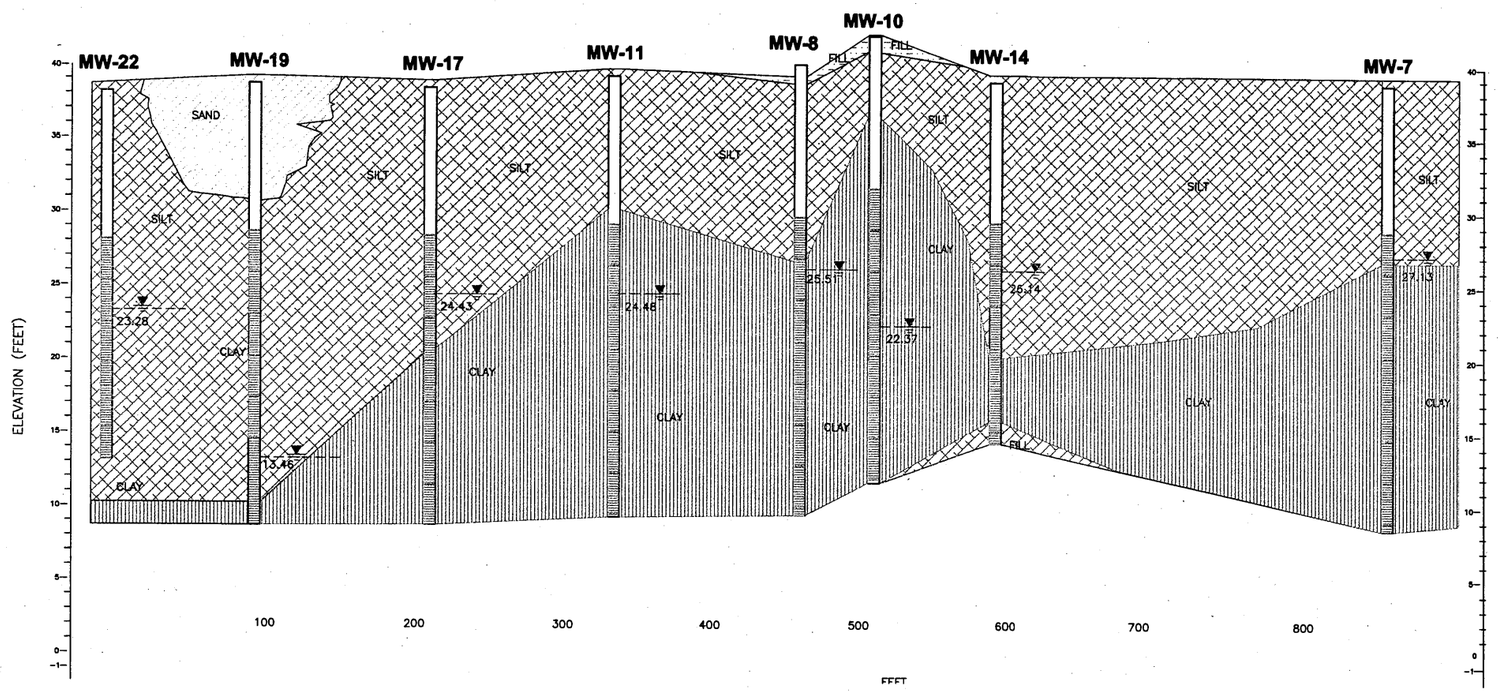
SCALE IN FEET

DRAFT

RETEC

SHELL OIL PRODUCTS US - SAN JOSE TERMINAL 2165 O'TOOLE AVE, SAN JOSE, CA SHEL5-18655-200		CROSS SECTION A-A'
DATE: 08/24/05	DRWN: LP/FTC	FIGURE 1

File: H:\Projects 2005\SHELL\SAN JOSE\San Jose-Cross Section A-A'.dwg Layout: ANSI_B1-CP User: lpaul Plotted: Aug 24, 2005 - 3:40pm Xref's: basemap01



LEGEND

GROUNDWATER ELEVATION MEASURED 5/12/05

WELL SCREEN

CLAY

SILT

SAND

FILL

50 0 100'

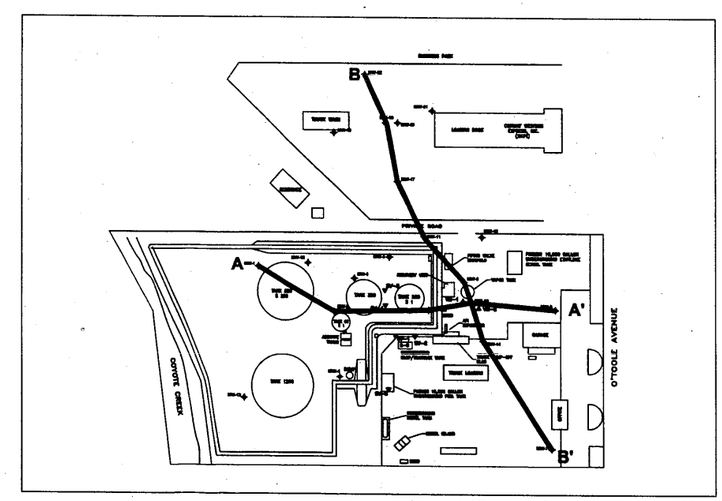
APPROXIMATE HORIZONTAL SCALE IN FEET

1"=100'

5 0 10

APPROXIMATE VERTICAL SCALE IN FEET

1"=10'



150 0 300

SCALE IN FEET

DRAFT

RETEC

SHELL OIL PRODUCTS US - SAN JOSE TERMINAL 2165 O'TOOLE AVE, SAN JOSE, CA SHEL5-18655-200			CROSS SECTION B-B'
DATE:	DRWN: LP/FTC		FIGURE 2

File: H:\Projects 2005\SHELL\SAN JOSE\San Jose-Cross Section B-B'.dwg Layout: ANSI_B1-CP User: lpaul Plotted: Aug 25, 2005 - 8:39am Xref's: basemap01

Table 2 Well Construction Table
Shell Oil Products - San Jose Terminal

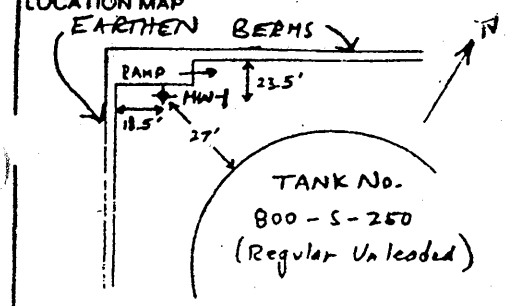
Well ID	Installation Date	Total Depth (feet)	Diameter (feet)	Screen Size (inches)	Top of Blank Casing (ft. bgs)	Bottom of Blank Casing (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	Top of Sand Pack (ft. bgs)	Bottom of Sand Pack (ft. bgs)	Top of Bentonite Seal (ft. bgs)	Bottom of Bentonite Seal (ft. bgs)	Top of Grout Seal (ft. bgs)	Bottom of Grout Seal (ft. bgs)	Well Type	Status
Groundwater Monitoring Wells																
MW-1	03/14/88	29.3	4.0	0.020	-1.0	9.4	9.4	29.3	7.0	30.0	5.5	7.0	0.0	5.5	M	Active
MW-2	03/15/88	29.3	4.0	0.020	-1.3	9.0	9.0	29.3	6.5	30.0	5.0	6.5	0.0	5.0	M	Active
MW-3	03/15/88	29.3	4.0	0.020	-1.3	9.0	9.0	29.3	7.0	30.0	5.5	7.0	0.0	5.5	M	Active
MW-4	03/15/88	29.6	4.0	0.020	-1.0	9.3	9.3	29.6	7.9	30.0	6.1	7.9	0.0	6.1	M	Active
MW-5	03/15/88	29.4	4.0	0.020	-1.4	9.1	9.1	29.4	7.0	30.0	5.5	7.0	0.0	5.5	M	Active
MW-6	03/16/99	30.4	4.0	0.020	0.4	10.1	10.1	30.4	8.7	30.5	7.2	8.7	0.5	7.2	M	Active
MW-7	03/16/88	30.2	4.0	0.020	0.5	9.9	9.9	30.2	8.5	30.5	7.0	8.5	0.6	7.0	M	Active
MW-8	03/16/88	29.8	4.0	0.020	-0.8	9.5	9.5	29.8	8.5	30.0	6.5	8.5	0.0	6.5	M	Active
MW-9	03/16/88	29.7	4.0	0.020	-0.9	9.4	9.4	29.7	8.5	30.0	7.0	8.5	0.0	7.0	M	Active
MW-10	11/20/89	30.0	2.0	0.020	0.4	10.0	10.0	30.0	8.0	31.5	4.0	8.0	0.5	4.0	M/GWE	Active
MW-11	11/21/89	30.0	2.0	0.020	0.4	10.0	10.0	30.0	8.0	31.5	5.0	8.0	0.5	5.0	M/GWE	Active
MW-12	11/21/89	29.0	2.0	0.020	-1.0	9.0	9.0	29.0	7.0	30.0	5.0	7.0	0.0	5.0	M	Active
MW-13	09/22/93	28.0	4.0	0.020	-3.0	8.0	8.0	28.0	7.0	30.0	5.0	7.0	0.0	5.0	M	Active
MW-14	05/30/02	25.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	25.0	6.0	8.0	0.0	6.0	M	Active
MW-15	05/30/02	30.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	30.0	6.0	8.0	0.0	6.0	M	Active
MW-17	05/31/02	30.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	30.0	6.0	8.0	0.0	6.0	M	Active
MW-18	05/29/02	25.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	25.0	6.0	8.0	0.0	6.0	M	Active
MW-19	05/31/02	30.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	30.0	6.0	8.0	0.0	6.0	M/GWE	Active
MW-20	05/30/02	25.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	25.0	6.0	8.0	0.0	6.0	M	Active
MW-21	05/29/02	25.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	25.0	6.0	8.0	0.0	6.0	M	Active
MW-22	05/30/02	30.0	4.0	0.020	0.5	10.0	10.0	25.0	8.0	30.0	6.0	8.0	0.0	6.0	M	Active
Soil Vapor Extraction Wells																
SV-1	10/24/95	13.5	1.67	0.010	NA	8.5	8.5	13.5	5.0	16.0	4.0	5.0	0.0	4.0	SVE	Inactive
SV-2	10/24/95	13.5	1.67	0.010	NA	8.5	8.5	13.5	5.0	13.5	4.0	5.0	0.0	4.0	SVE	Inactive
SV-3	10/23/95	13.5	1.67	0.010	NA	8.5	8.5	13.5	5.0	13.5	4.0	5.0	0.0	4.0	SVE	Inactive
SV-4	10/23/95	13.5	1.67	0.010	NA	8.5	8.5	13.5	5.0	13.5	4.0	5.0	0.0	4.0	SVE	Inactive
SV-5	10/24/95	15.5	1.67	0.010	NA	10.5	10.5	15.5	5.0	15.5	3.0	5.0	0.0	3.0	SVE	Inactive

Notes:

ft. bgs = Feet below ground surface
NA = Not applicable
M= Monitoring Well
GWE = Groundwater extraction system well

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-1	LOCATION	San Jose, California
DATE	3/14/88	WEATHER	Sunny, Warm
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	Lonestar #3 Sand from 7.0 - 29.3'	SEAL	Cement from 0 - 5.5'; Bentonite from 5.5 - 7.0'

ELEVATION: T.O.C. = 40.20' *

CASING: TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS; DIAMETER 4"; LENGTH 9.4' Below G.S.; HOLE DIA 11"

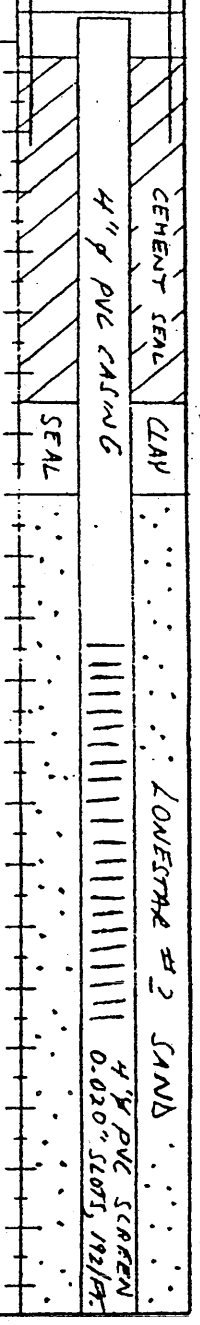
SCREEN: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; SLOT 0.020" 192/FOOT; DIAMETER 4"; LENGTH 19.9'; TOTAL DEPTH 30.0'

Begin Drilling @ 3:00 pm.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Dry	Poor	Loose	—			0			FILL - 2" of Silty GRAVEL, light grey and brown, 3/4" ø, angular.
						1			
						2			NATURAL - SILT, medium brown, clayey.
						3			
Damp to Very Damp	—	Soft	Non-Plastic		0	4			
						5			
						6			
						7			Increasingly Clayey.
						8			
						9			Clayey SILT, dark brown.
Moist	—	Soft	Slt. Plastic	1	0	10		2 4	
						11			
						12			
						13			
						14			
Very Moist	—	Medium Stiff	Slt. Plastic	2	0	15		2 7	No recovery.
						16			Retrieve Sample from 16'.
						17			
						18			
						19			
Moist	—	Stiff	Slt. Plastic	3	0	20		6 11	Silty CLAY, light brown, greyish streaks, roots.

WELL COMPLETION



* REFERENCED FROM CITY OF SAN JOSE DATUM (1978).

S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

LOCATION MAP: See Page 1

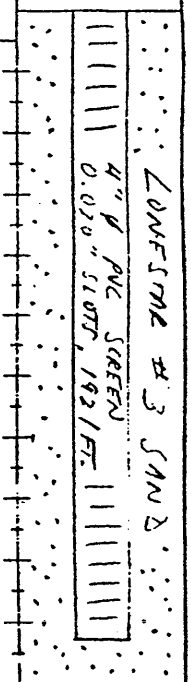
WELL NUMBER	MW-1
LOCATION	San Jose, California
DATE	3/14/88
WEATHER	
LOGGED BY	L. NOBLER
DRILLED BY	
DRILLING METHOD	
SAMPLING METHOD	
GRAVEL PACK	
SEAL	
ELEVATION	

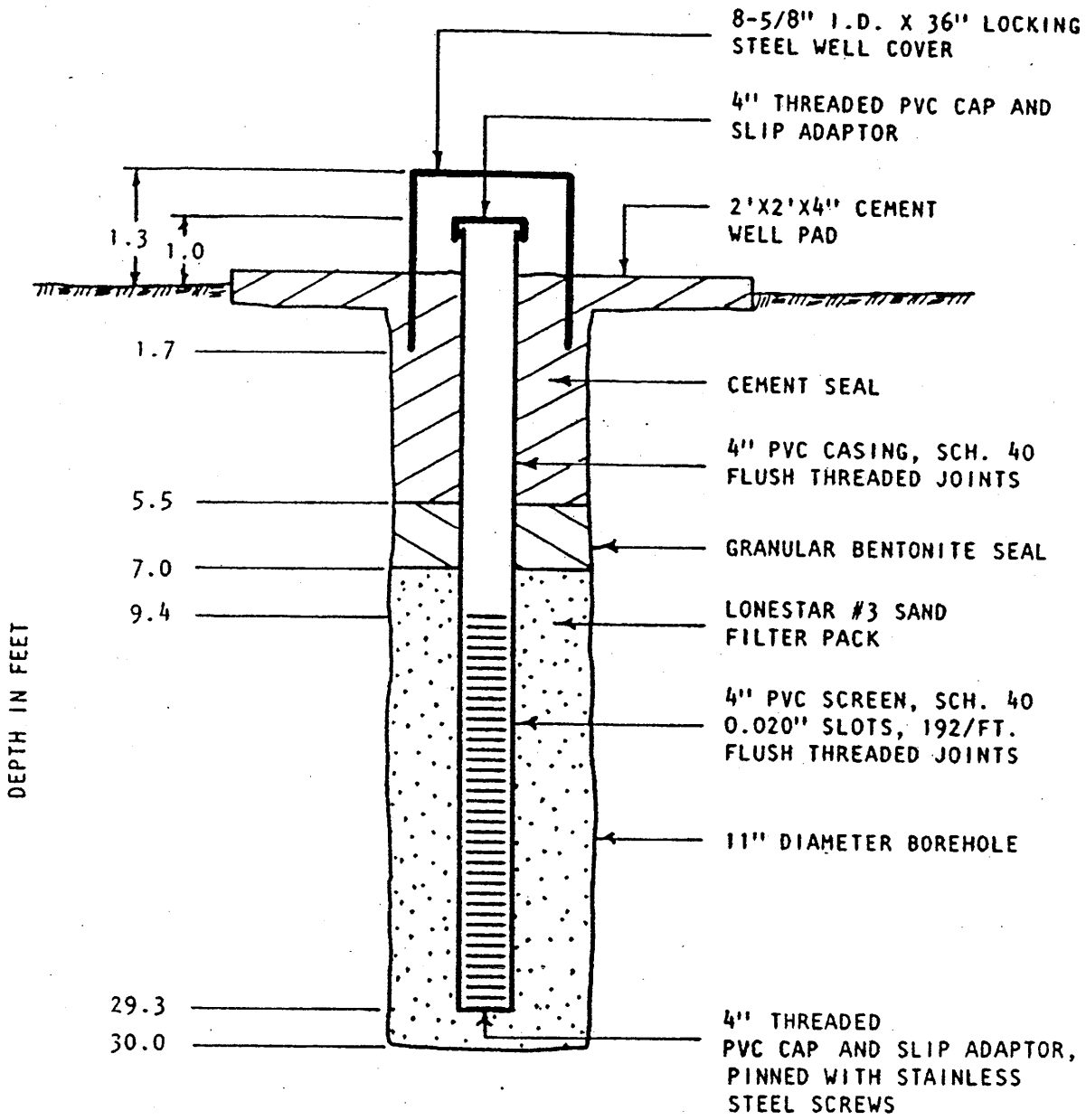
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Moist	—	Stiff	Slt. Plastic	3	0	20		6 / 11	As above.
						21			
						22			
						23			
						24			
Moist	—	Stiff	Slt. Plastic	4	0	25		6 / 12	Light brown and orange, mottled, with greyish streaks.
						26			
						27			Wet @ 27'.
						28			
						29			
Saturated	—	Medium Stiff	Slt. Plastic	5	0	30		3 / 6	
						31			Total Depth: 30'. Install well to 29.3'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





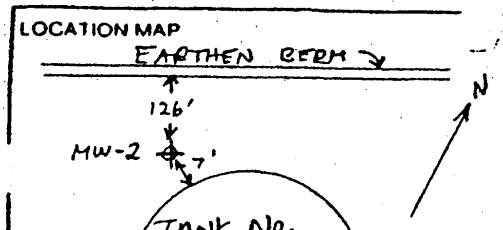
MONITORING WELL MW-1 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-2	LOCATION	San Jose, California
DATE	3/15/88	WEATHER	Sunny, Cool
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	LONESTAR #3 SAND FROM 6.5-30.0'	SEAL	CEMENT FROM 0-5.0'; BENTONITE FROM 5.0-6.5'
ELEVATION	T.O.C. = 40.26'		

CASING ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS DIAMETER 4" LENGTH 9.0' Below G.S. HOLE DIA 11"

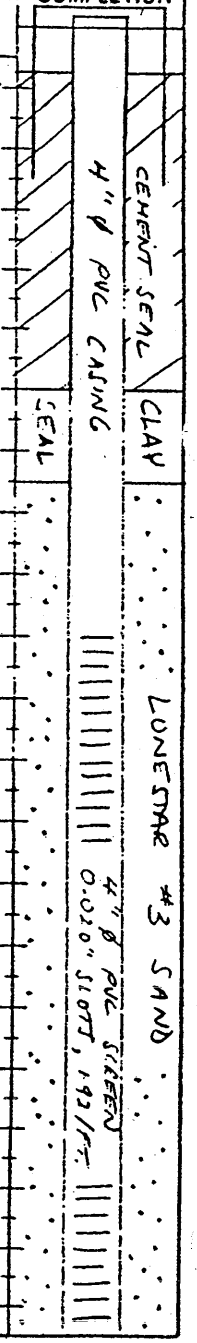
SCREEN ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 4" LENGTH 20.3' TOTAL DEPTH 30.0'

Begin @ 8:40 a.m.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	0-5'	Non-Plastic			0–4.5			FILL - 4" of Silty GRAVEL, 3/4" ϕ, angular. NATURAL - SILT, light reddish-brown, mottled.
Damp	—	Medium Stiff	Sltly. Plastic	1	0	5–7.5			Sandy SILT, dark greyish-green, very fine grained, no odor.
						8		6 8	Clayey SILT, medium reddish-brown, mottled.
Moist	—	Medium Stiff	Slt. Plastic	2	0	9–14			Increasingly Clayey, mottled reddish-brown and green, with greyish streaks, no odor.
						15		3 10	Silty CLAY, reddish-brown.
Damp to Wet	—	Stiff	Slt. Plastic	3	100	16–20		7 14	Brown, mottled, with wet, greyish streaks, strong HC odor.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-2	LOCATION	San Jose, California
DATE	3/15/88	WEATHER	
LOGGED BY	L. NODLER	DRILLED BY	
DRILLING METHOD		SAMPLING METHOD	
GRAVEL PACK		SEAL	

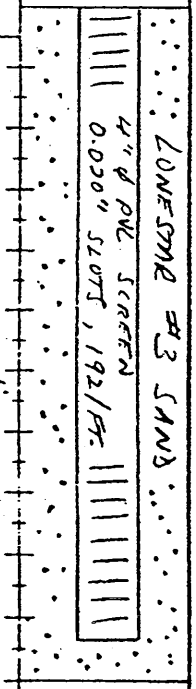
ELEVATION

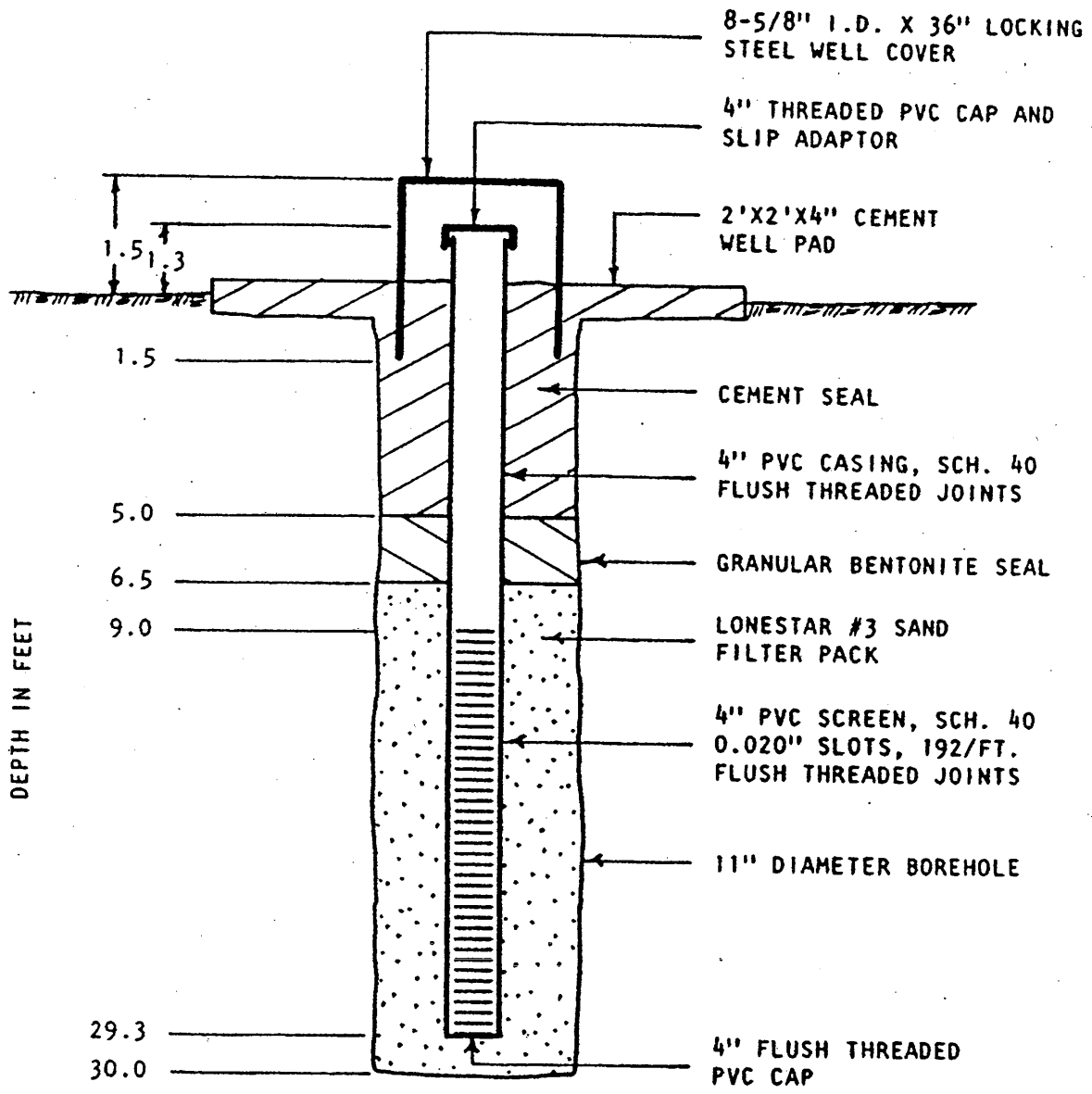
CASING TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp to Wet	—	Stiff	Slt. Plastic	3	100	20		7 14	As above.
						21			
						22			
						23			
						24			
Damp	—	Stiff	Slt. Plastic	4	0	25		5 11	Reddish-brown, mottled, with greenish-grey streaks, no odor.
						26			
						27			
						28			
						29			
Saturated	—	Medium Stiff	Slt. Plastic	5	0	30		5 6	Total Depth: 30'. Install well to 29.3'.
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





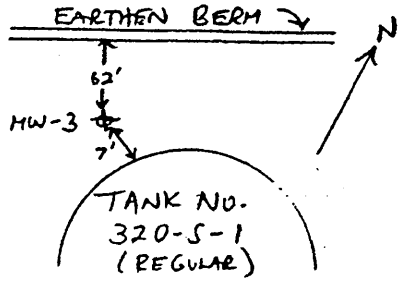
MONITORING WELL MW-2 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-3	LOCATION	San Jose, California
DATE	3/15/88	WEATHER	Sunny, Warm
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	LONESTAR #3 SAND FROM 7.0 - 30.0'.	SEAL	CEMENT FROM 0 - 5.5'; BENTONITE FROM 5.5-7.0'.

ELEVATION: T.O.C. = 39.92'

CASING: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; DIAMETER 4"; LENGTH 9.0' Below G.S.; HOLE DIA 11"

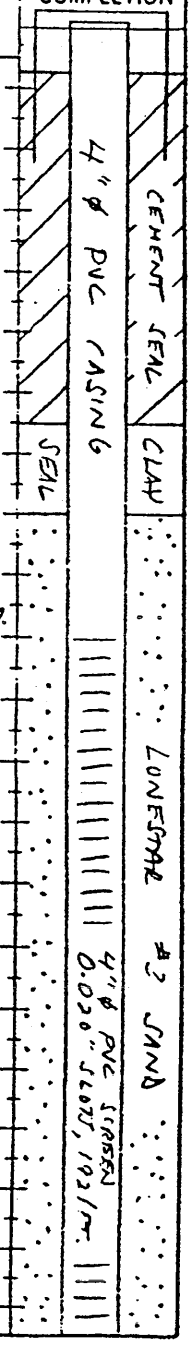
SCREEN: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; SLOT 0.020" 192/FT.; DIAMETER 4"; LENGTH 20.3'; TOTAL DEPTH 30.0'

Begin @ 10:20 am.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Soft	Non-Plastic		0	0–8			FILL - 3" of Silty GRAVEL, grey, 3/4"ø, angular. NATURAL - SILT, light brown. Sandy SILT, dark greyish-green, very fine grained, no odor. Light brown and red, mottled, with greyish-green streaks. Medium brown.
Damp	—	Medium Stiff	Slt. Plastic	1, 2	0, 0	8–11		2, 5, 6	Clayey SILT, light reddish-brown.
Damp	—	Stiff	Slt. Plastic	3, 4	0, 0	11–18		5, 9, 10	Medium reddish-brown with green streaks, mottled, sticky, no odor.
Damp	—	Stiff	Slt. Plastic	5	0	18–20		9, 10	Silty CLAY, medium to dark greenish-brown with light blue-green streaks, mottled, no odor.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

ELEVATION ▶

SHELL OIL COMPANY — WELL LOG

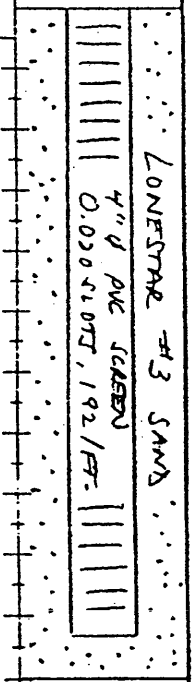
WELL NUMBER ▶	MW-3	LOCATION ▶	San Jose, California
DATE ▶	3/15/88	WEATHER ▶	
LOGGED BY ▶	L. NOBLER	DRILLED BY ▶	
DRILLING METHOD ▶		SAMPLING METHOD ▶	
GRAVEL PACK ▶		SEAL ▶	

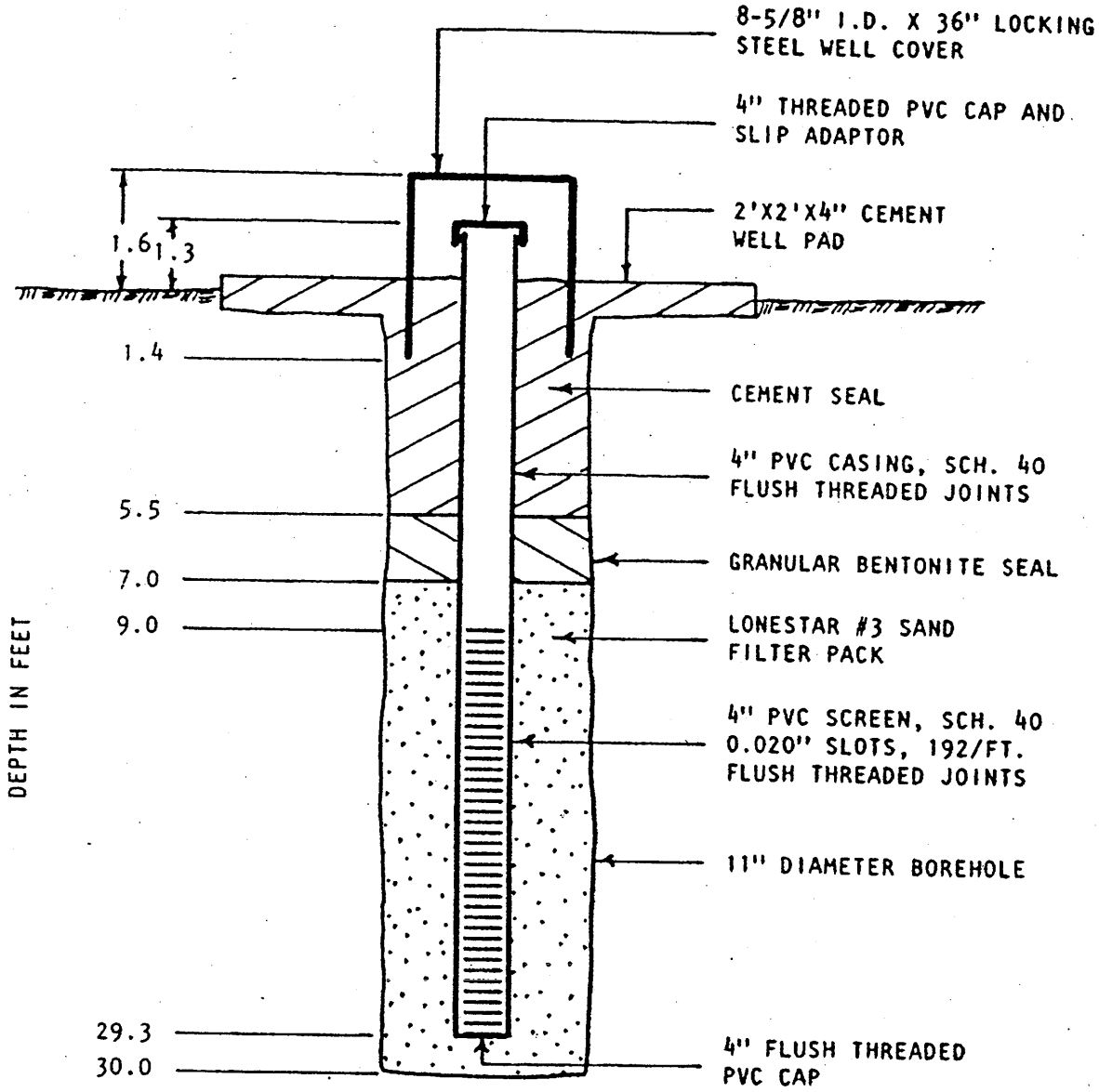
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Stiff	Slt. Plastic	5	0	20		9, 10	As above.
						21			
						22			
						23			
						24			
Moist	—	Medium Stiff	Slt. Plastic	6	0	25		4, 9	Light brown, mottled, with blue-green streaks.
						26			
						27			
						28			
						29			
Saturated	—	Medium Stiff	Hly. Plastic	7	0	30		3, 8	Very sticky, no odor.
						31			Total Depth = 30.0'. Install well to 29.3'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





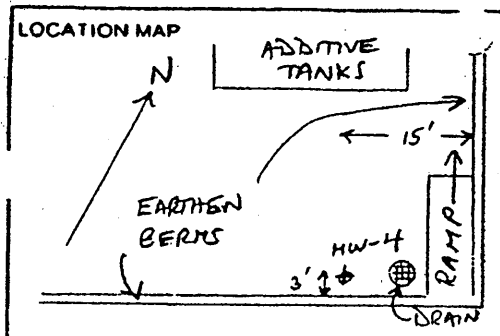
MONITORING WELL MW-3 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-4	LOCATION	San Jose, California
DATE	3/15/88	WEATHER	Sunny, Warm
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	Lonestar #3 Sand from 7.9 - 30.0'.	SEAL	Cement from 0 - 6.1'; Bentonite from 6.1 - 7.9'.

ELEVATION: T.O.C. = 39.22'

CASING: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; DIAMETER 4"; LENGTH 9.3' Below G.S.; HOLE DIA 11"

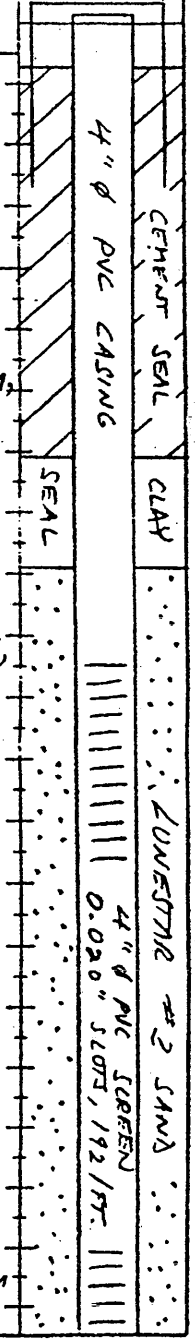
SCREEN: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; SLOT 0.020" 192/FT.; DIAMETER 4; LENGTH 20.3'; TOTAL DEPTH 30.0'

Begin @ 3:00 p.m.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Soft	Silty Plastic			0			NATURAL - SILT, light brown.
Moist to Wet	—	Soft	Non-Plastic			3			Sandy SILT, medium to dark greenish-brown.
Damp	—	Medium Stiff	Slt. Plastic		0	5			SILT, light to medium reddish-brown, no odor.
Moist	—	Medium Stiff	Slt. Plastic	1 2	130 110	10 11		3 6 8	Clayey SILT, dark greyish-green, mottled, with blue-green streaks, Strong HC odor.
Moist	—	Medium Stiff	Slt. Plastic	3	100	15		3 8	Silty CLAY, greenish-brown with blue-green streaks, strong HC odor.
Moist	—	Stiff	Silty Plastic	4	100	20		12 15	Reddish-brown with wet, blue-green streaks.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-4	LOCATION	San Jose, California
DATE	3/15/88	WEATHER	
LOGGED BY	L. NOBLER	DRILLED BY	
DRILLING METHOD		SAMPLING METHOD	
GRAVEL PACK		SEAL	

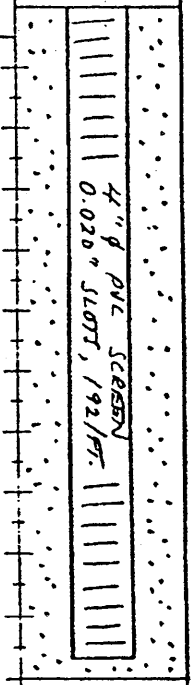
ELEVATION

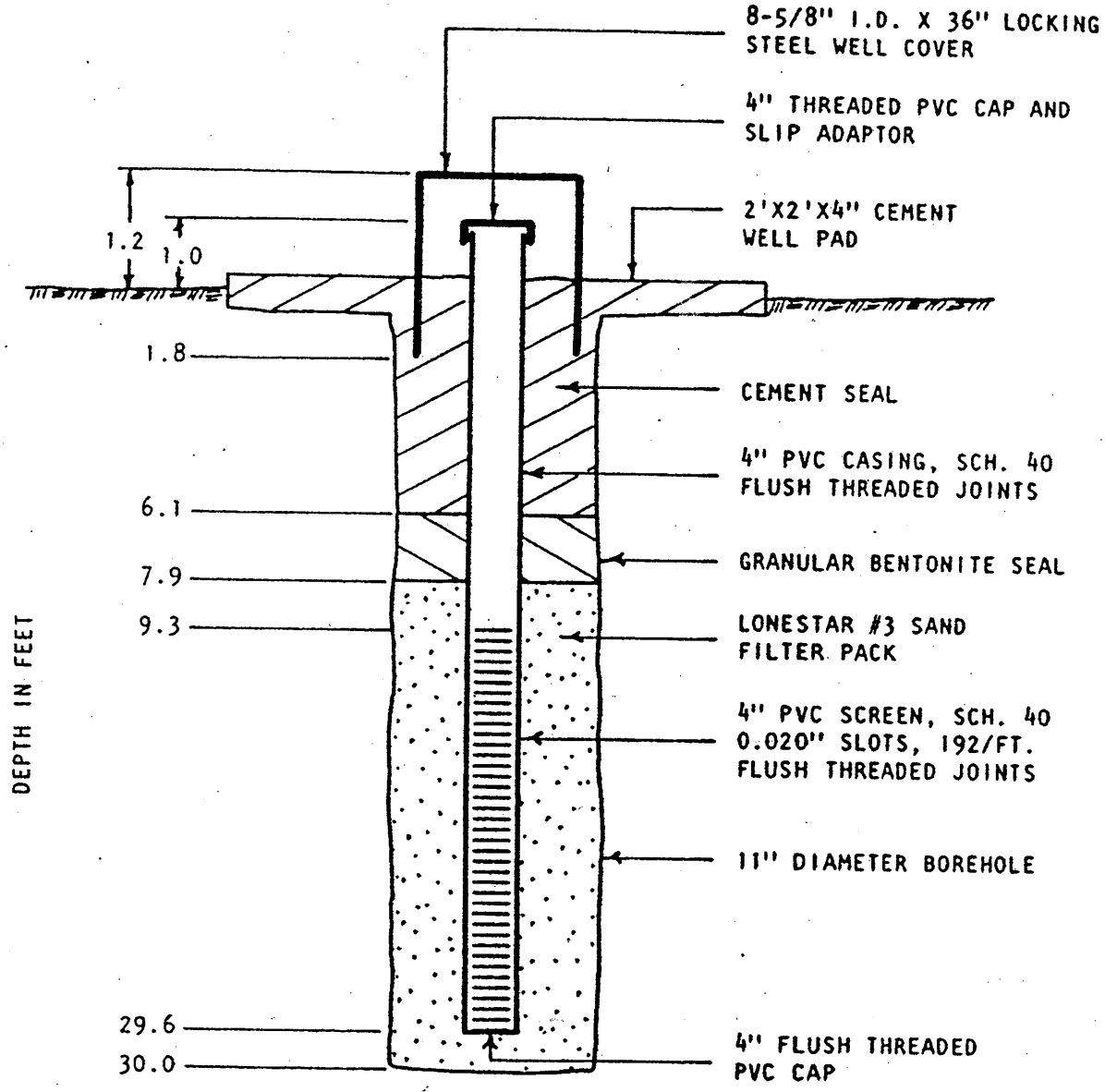
CASING TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Moist	—	Stiff	Sltly. Plastic	4	100	20		12 / 15	As above.
						21			
						22			
						23			
Saturated	—	Medium Stiff	Sltly. Plastic	5	100	24		4 / 8	Ground water encountered; Strong HC odor.
						25			
						26			
						27			
						28			
	—	Medium Stiff	Sltly. Plastic	6	100	29		5 / 11	Minor HC odor.
						30			Total Depth: 30.0'. Install Well to 29.6'.
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





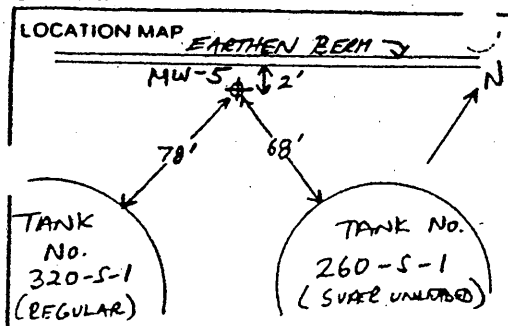
MONITORING WELL MW-4 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



ELEVATION ▶ T.O.C. = 40.36'

SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-5	LOCATION	San Jose, California
DATE	3/15/88	WEATHER	Sunny, Warm
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	Lonestar #3 Sand from 7.0 - 30.0'.	SEAL	Cement from 0' - 5.5'; Bentonite from 5.5 - 7.0'.

CASING ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINT DIAMETER 4" LENGTH 9.1' Below G.S. HOLE DIA 11"

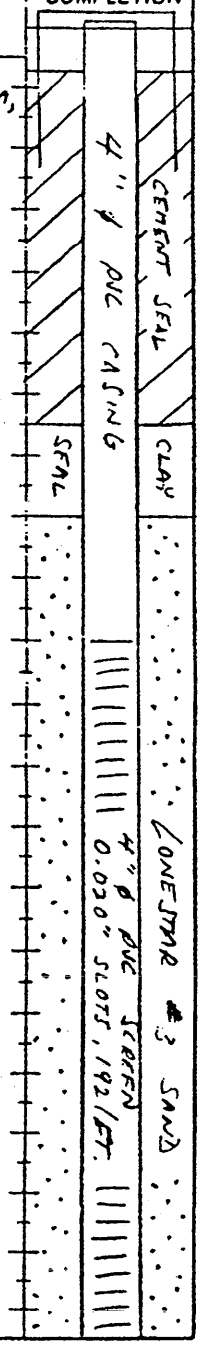
SCREEN ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 4" LENGTH 20.3' TOTAL DEPTH 30.0'

Begin @ 12:30 p.m.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Dry	—	Soft	Non-Plastic			0			NATURAL - SILT, light reddish-brown,
						1			
						2			
						3			Sandy SILT, medium to dark greenish-brown, very fine grained, no odor.
						4			
Damp	—	Soft	Slt. Plastic		0	5			SILT, light reddish-brown.
						6			
						7			
						8			
Moist	—	Soft	Slt. Plastic	1	0	9			Clayey SILT, light reddish-brown, mottled, with light bluish-green streaks, sticky.
						10		1 3	
						11			
						12			
						13			
Moist	—	Soft	Slt. Plastic	2	0	14			
						15		2 5	
						16			
						17			SiHy CLAY, greenish-grey.
						18			
						19			
Damp	—	Stiff	Slt. Plastic	3	150	20		1/2	Dark greenish-grey, with wet, greyish streaks, laminated.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

SHELL OIL COMPANY — WELL LOG

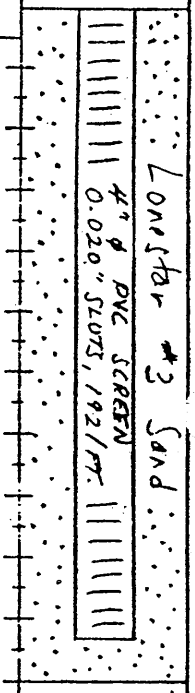
WELL NUMBER ▶ MW-5	LOCATION ▶ San Jose, California
DATE ▶ 3/15/88	WEATHER ▶
LOGGED BY ▶ L. NOBLER	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
ELEVATION ▶	GRAVEL PACK ▶ / SEAL ▶

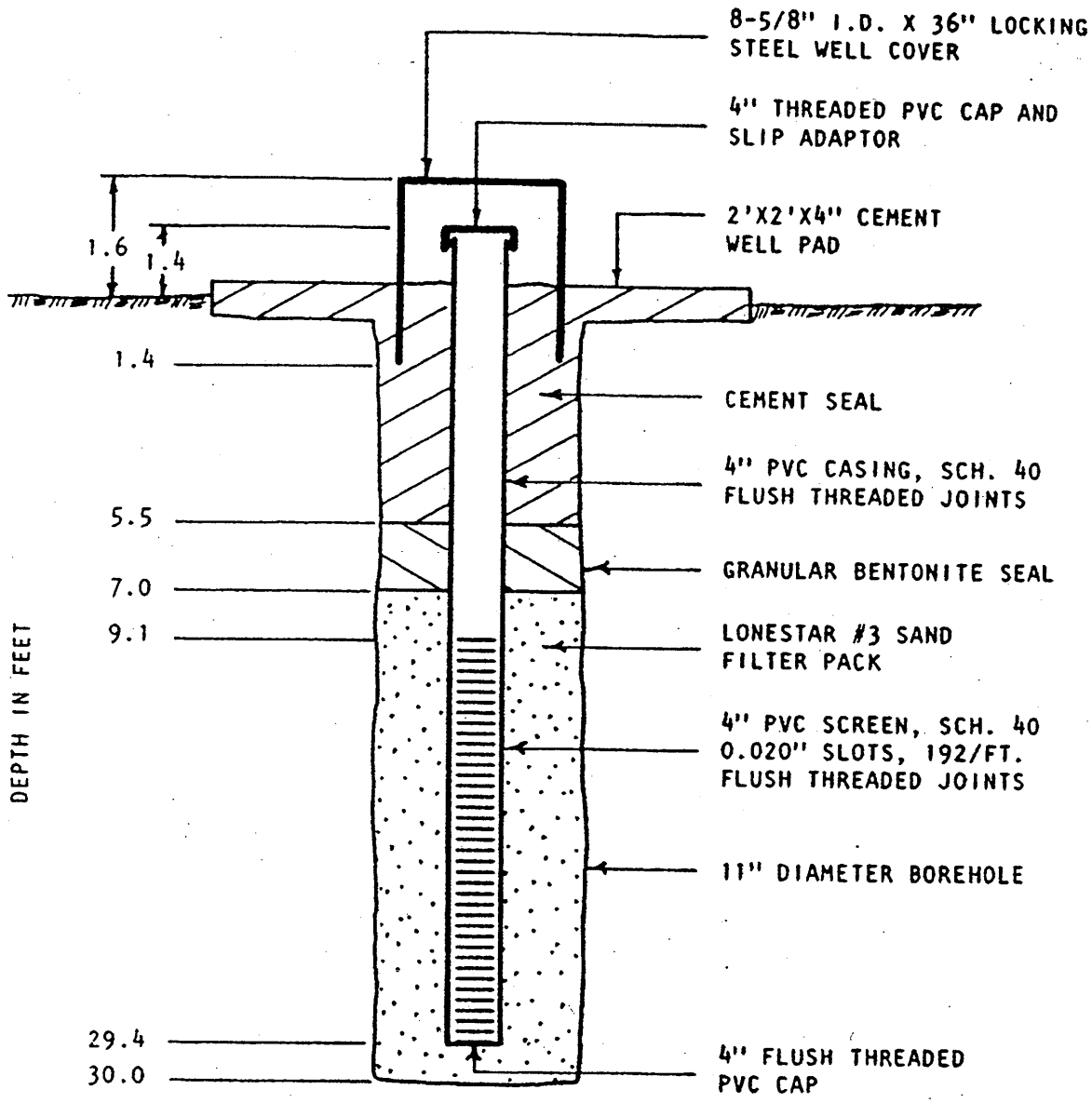
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Stiff	Slt. Plastic	3	150	20		6, 12	As above.
						21			
						22			
						23			Reddish-brown and green, mottled, sticky.
						24			
Damp	—	Stiff	Slt. Plastic	4	0	25		8, 9	
						26			
						27			Light brown, mottled.
						28			
						29			
Saturated	—	Medium Stiff	Slty. Plastic	5	0	30		3, 6	
						31			Total Depth: 30.0'. Install Well to 29.4'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





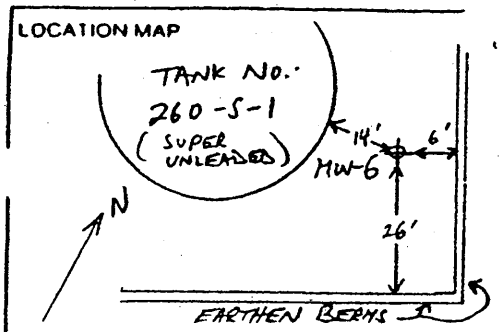
MONITORING WELL MW-5 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-6	LOCATION	San Jose, California
DATE	3/16/88	WEATHER	Sunny, Cool
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	Lonestar #3 Sand, from 8.7-30.5'.	SEAL	Cement from 0-7.2'; Bentonite from 7.2-8.7'.

ELEVATION: T.O.C. = 38.94'

CASING: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; DIAMETER 4"; LENGTH 10.1 Below G.S.; HOLE DIA 11"

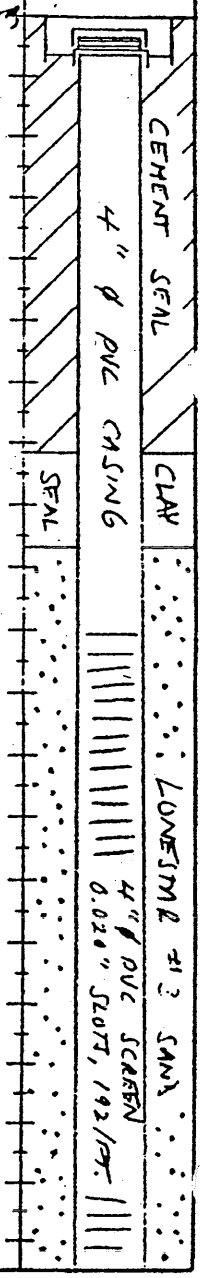
SCREEN: TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS; SLOT 0.020" 192/FT.; DIAMETER 4"; LENGTH 20.3'; TOTAL DEPTH 30.5'

Begin @ 9:15 a.m.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Soft	Non-Plastic			0–3			FILL - 2" of Silty GRAVEL, light brown, 3/4" ø, angular, dry. NATURAL - SILT, light brown, no odor.
Moist	—	Soft	Non-Plastic		0	4–6			Sandy SILT, greenish-brown, no odor.
Damp	—	Soft	Slt. Plastic	1	0	7–10		3/4	Clayey SILT, reddish-brown, no odor.
Damp	—	Medium Stiff	Slt. Plastic	2	15	11–15		3/9	Silty CLAY, medium to dark brown, no odor.
Damp	—	Stiff	Slt. Plastic	3	50	16–20		6/13	Greenish-grey with wet, bluish-grey streaks, strong HC odor.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

SHELL OIL COMPANY — WELL LOG

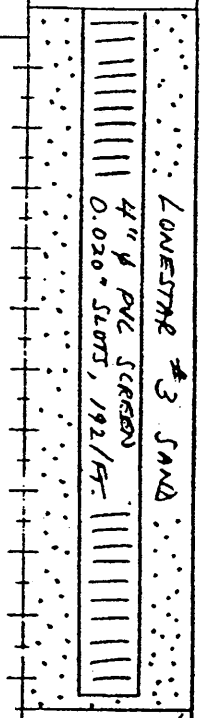
WELL NUMBER ▶ MW-6	LOCATION ▶ San Jose, California
DATE ▶ 3/16/88	WEATHER ▶
LOGGED BY ▶ L. NODLER	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
ELEVATION ▶	GRAVEL PACK ▶ / SEAL ▶

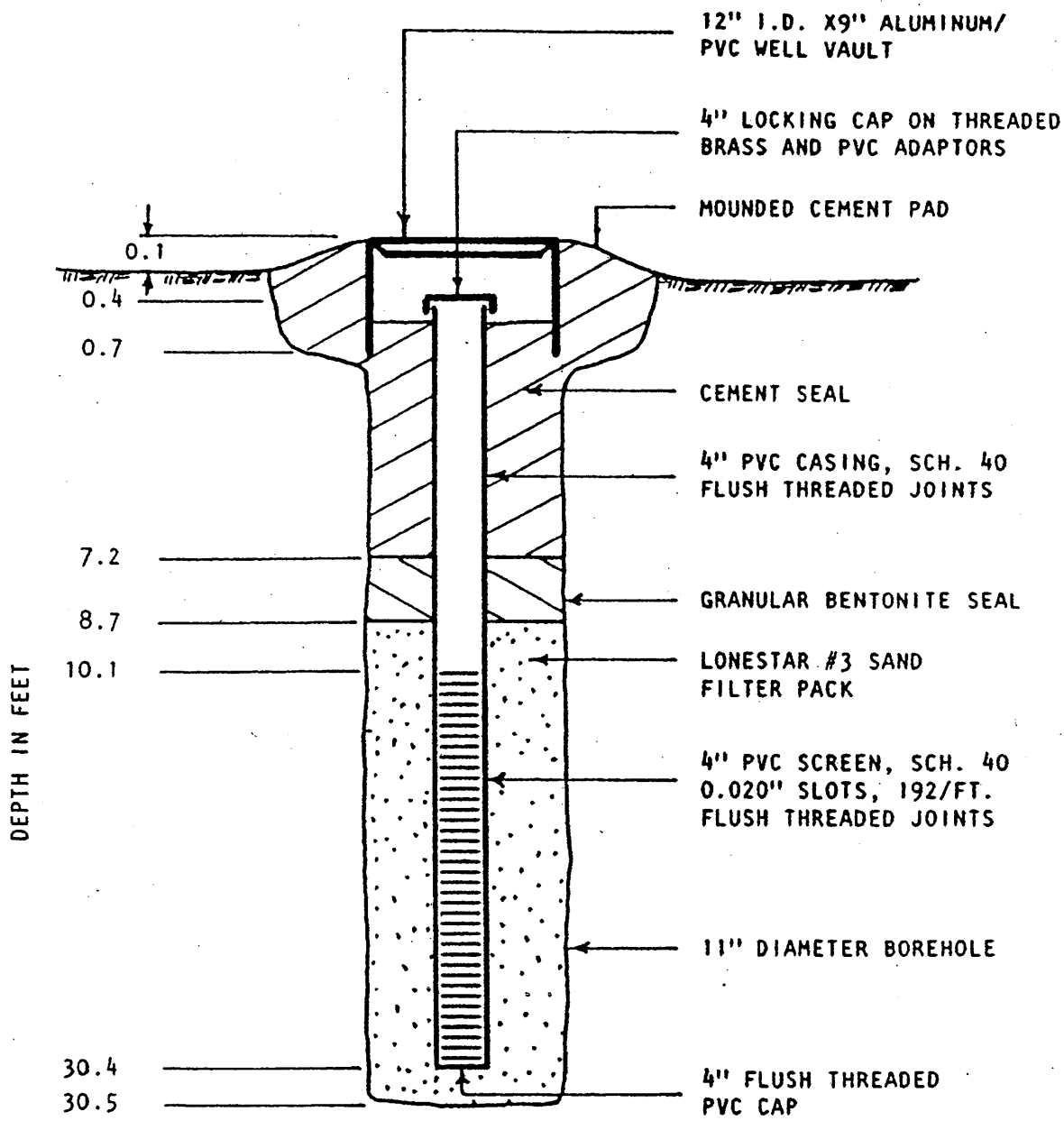
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.5'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Stiff	Sl. Plastic	3	50	20		6, 13	As above.
						21			
						22			
						23			
						24			
Moist	—	Medium Stiff	Sl. Plastic	4	2	25		4, 11	Greenish and reddish brown, mottled, with bluish-green streaks, no HC odor.
						26			
						27			
						28			
						29			
Saturated.	—	Medium Stiff	Sl. Plastic	5	0	30		4, 8	
						31			Total Depth = 30.5'. Install well to 30.4'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





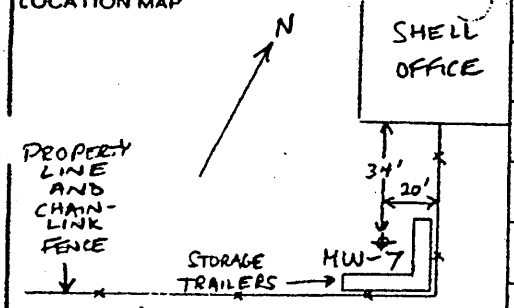
MONITORING WELL MW-6
CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



ELEVATION ▶ T.O.C. = 38.73'

SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-7	LOCATION	San Jose, California
DATE	3/16/88	WEATHER	Sunny, Cool
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	Lonestar #3 Sand from 8.5-30.5'.	SEAL	Cement from 0.-7.0'; Bentonite from 7.0-8.5'.

CASING ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS DIAMETER 4" LENGTH 9.9' Below G.S. HOLE DIA 11"

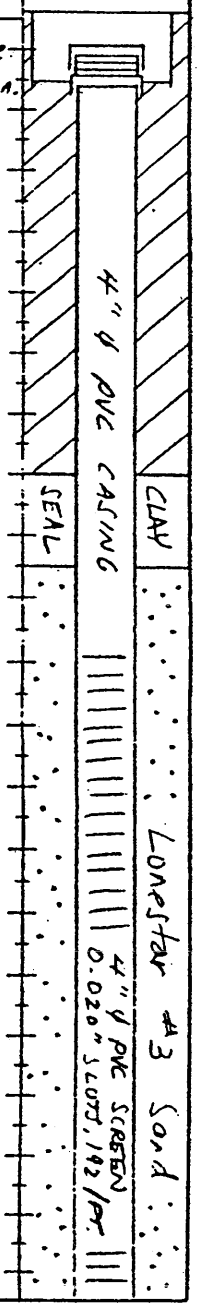
SCREEN ▶ TYPE SCHEDULE 40 PVC FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 4" LENGTH 20.3' TOTAL DEPTH 30.5'

Begin @ 6:30 a.m.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Moist	—	Soft	Slt. plastic		0	0–5			FILL - 1" of A.C. Paving; 1" of Gravel Base; 6" of Gravelly SILT, reddish-brown. NATURAL - Sandy to Clayey SILT, green, very fine grained.
Moist	—	Soft	Slt. plastic		0	6–9			Clayey SILT, reddish-brown, no odor
				1	0	10		2	
				2	0	11		4, 4	
Damp	—	Stiff	Slt. plastic	3	0	13–15		6, 12	Silty CLAY, light brown and green, mottled, sticky, no odor.
Damp	—	Stiff	Slt. plastic	4	0	20		10, 16	Light brown and green, mottled, with bluish-grey streaks, no odor.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

SHELL OIL COMPANY — WELL LOG

WELL NUMBER ▶ MW-7	LOCATION ▶ San Jose, California
DATE ▶ 3/16/88	WEATHER ▶
LOGGED BY ▶ L. NOBLER	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

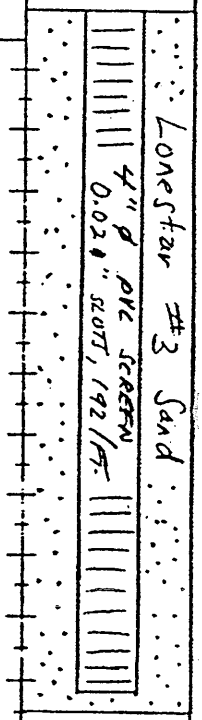
ELEVATION ▶

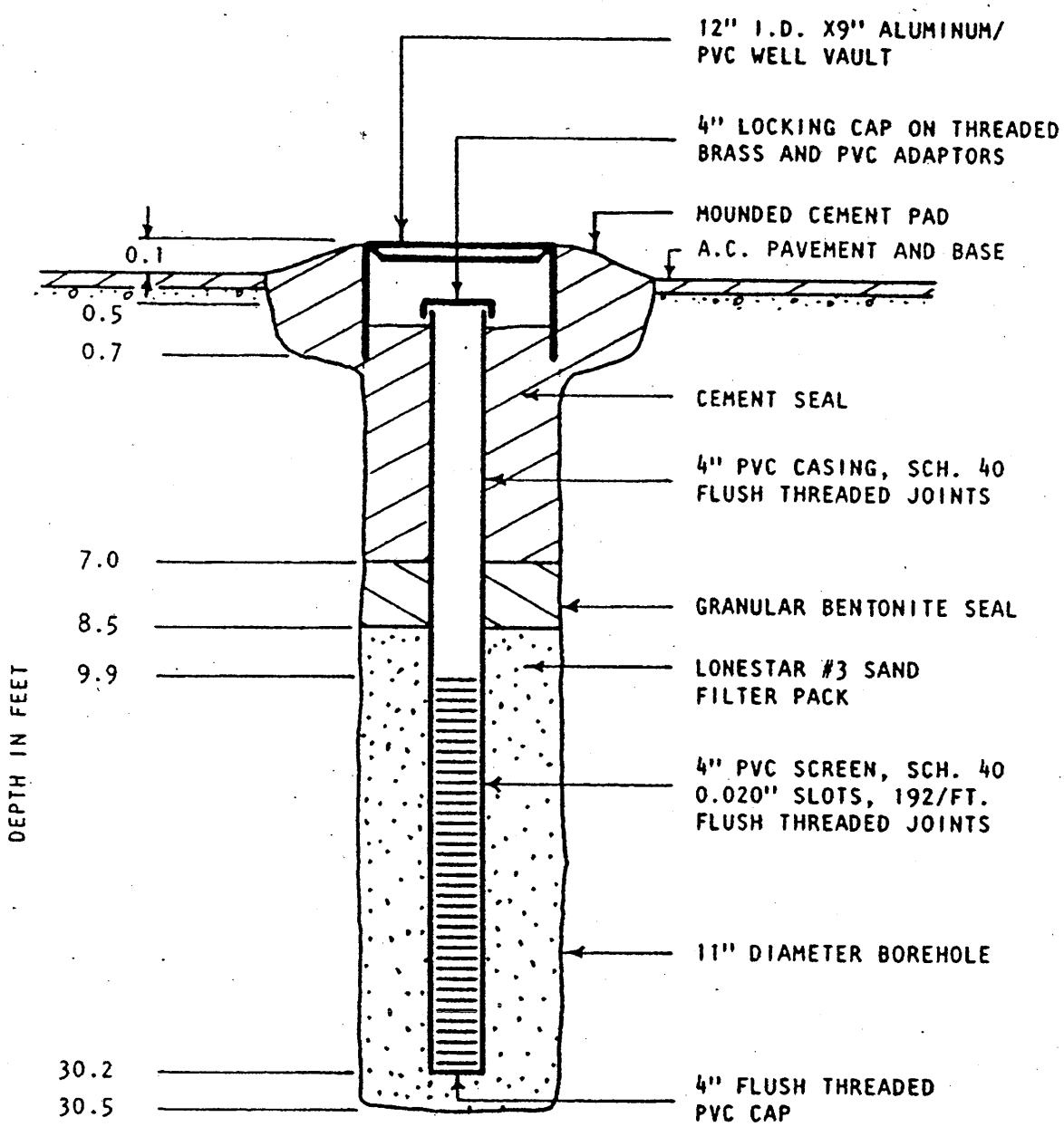
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA "

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH '

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Stiff	Sft. Plastic	4	0	20		10 16	As above.
						21			
						22			
						23			
						24			
Damp	—	Medium Stiff	Sft. Plastic	5	0	25		4 5	No odor.
						26			
						27			
						28			
						29			
Saturated	—	Medium Stiff	Sft. Plastic	6	0	30		4 8	Light brown, very fine grained Sand, no odor.
						31			Total Depth: 30.5'. Install well to 30.2'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





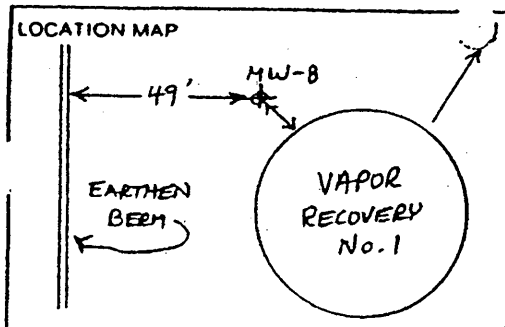
MONITORING WELL MW-7 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-8	LOCATION	San Jose, California
DATE	3/16/88	WEATHER	Sunny, Warm
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	Lonestar #3 Sand from 8.5 - 30.0'.	SEAL	Cement from 0 - 6.5'; Bentonite from 6.5 - 8.5'.
ELEVATION	T.O.C. = 40.06'		

CASING ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS DIAMETER 4" LENGTH 9.5' Below G.S. HOLE DIA 11"

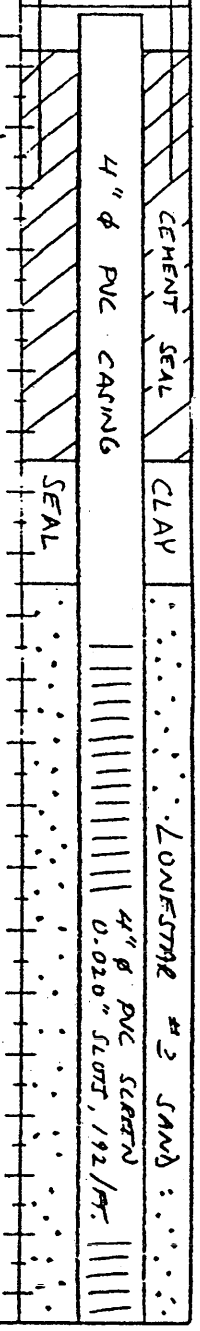
SCREEN ▶ TYPE SCHEDULE 40 PVC FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 4" LENGTH 20.3' TOTAL DEPTH 30.0'

Begin @ 11:20 a.m.

Boring Hand Augered to 5' Depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (PPM)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Soft	Non-Plastic			0–5			FILL - 4" of GRAVEL, 3/4" ϕ, angular. NATURAL - Sandy SILT, medium reddish-brown, no odor.
					0	5–8			Increasingly Sandy. Greenish-brown.
Moist	—	Soft	Slt. Plastic	1	0	9–10		2	Clayey SILT, light to medium reddish-brown, no odor.
				2	0	10–11		3, 6	
Damp	—	Medium Stiff	Slt. Plastic	3	5	12–15		4, 8	Silty CLAY, red, green, and brown, mottled, with bluish-green streaks, slight HC? odor.
Damp	—	Stiff	Slt. plastic	4	100	16–20		6, 13	Brown, with wet, grey streaks, mottled, strong HC odor.

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

ELEVATION ▶

SHELL OIL COMPANY — WELL LOG

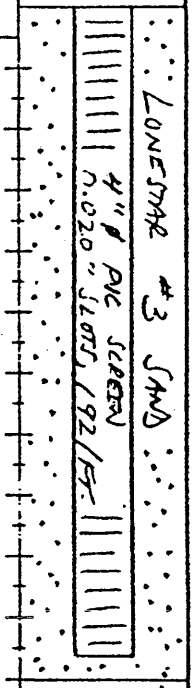
WELL NUMBER ▶ MW-8	LOCATION ▶ San Jose, California
DATE ▶ 3/16/88	WEATHER ▶
LOGGED BY ▶ L. NOBLER	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

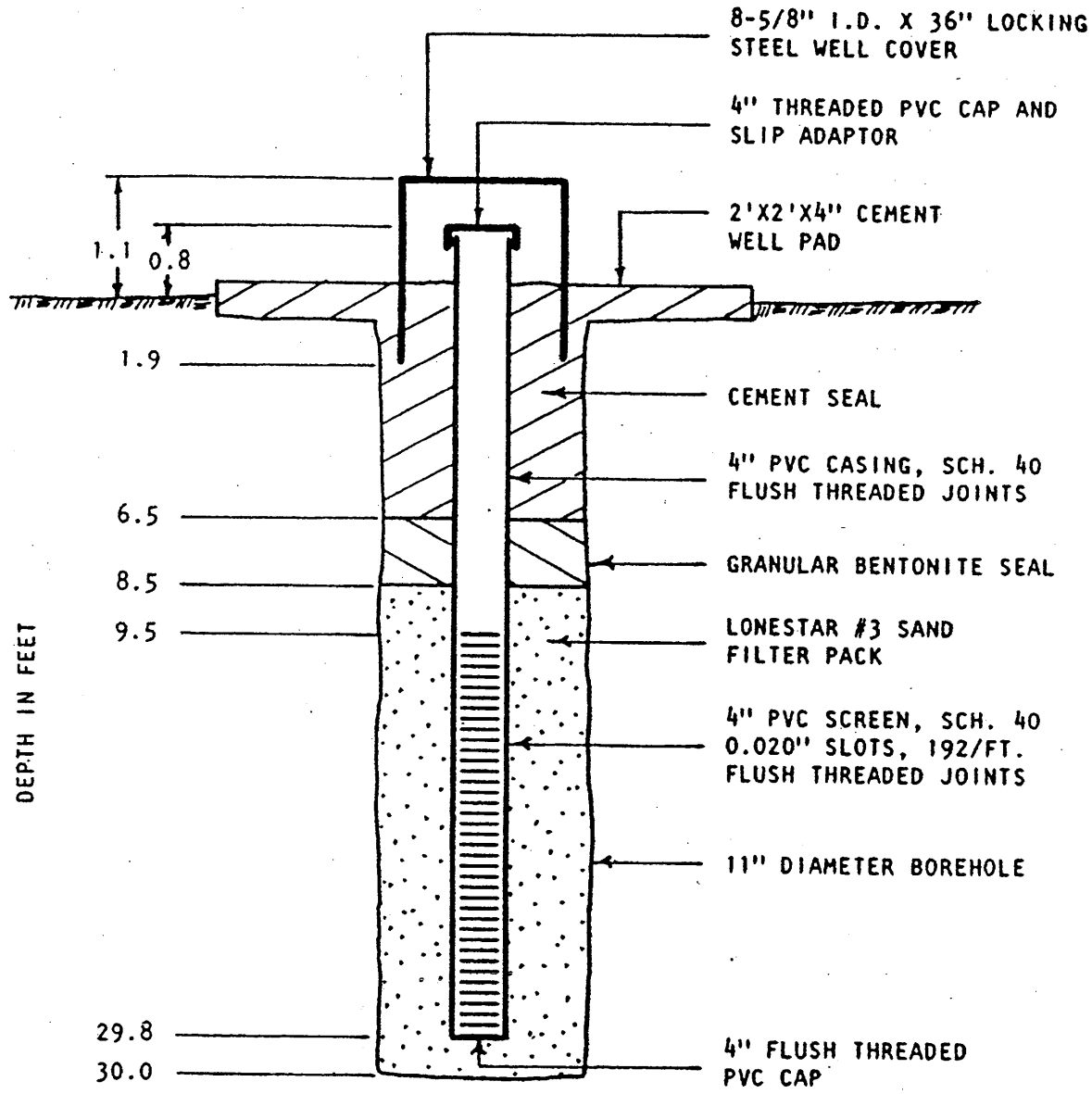
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Stiff	Slt. Plastic	4	100	20		6 13	As above.
						21			
						22			
						23			
						24			
Damp	—	Stiff	Slt. Plastic	5	2	25		5 6	Light reddish-brown, mottled, very slight HC odor.
						26			
						27			
						28			
						29			
Wet	—	Soft	Slt. Plastic	6	0	30		3 5	No odor.
						31			Total Depth: 30.0'. Install well to 29.8'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





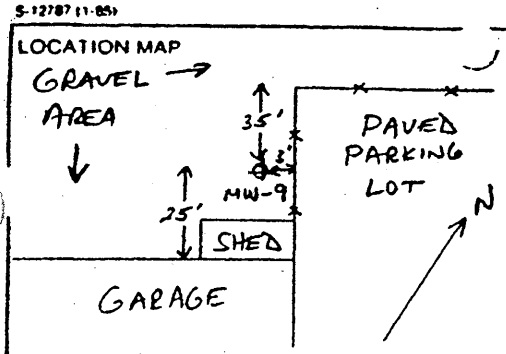
MONITORING WELL MW-8 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

LOCATION MAP



SHELL OIL COMPANY — WELL LOG

WELL NUMBER	MW-9	LOCATION	San Jose, California
DATE	3/16/88	WEATHER	Sunny, Warm
LOGGED BY	L. NOBLER	DRILLED BY	Spectrum Exploration
DRILLING METHOD	Hollow-Stem Flight Auger	SAMPLING METHOD	2" Split Spoon Sampler 140# Hammer; 30" Drop
GRAVEL PACK	LONESTAR #3 SAND FROM 8.5 - 30.3'.	SEAL	Cement from 0 - 7.0'; Bentonite from 7.0-8.5'.
ELEVATION	T.O.C. = 39.41'		

CASING ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS DIAMETER 4" LENGTH 9.4' Below G.S. HOLE DIA 11"

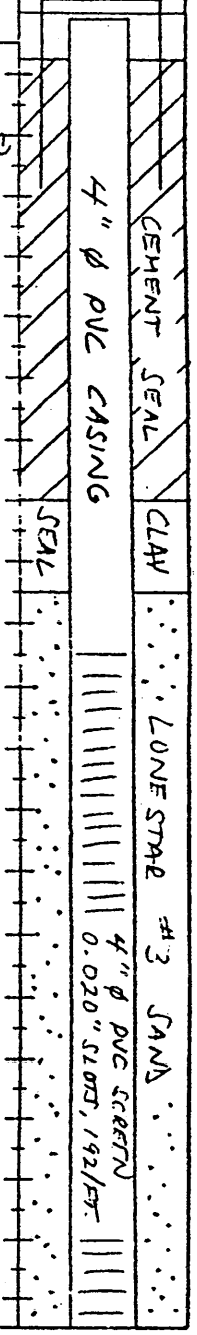
SCREEN ▶ TYPE SCHEDULE 40 PVC, FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 4" LENGTH 20.3' TOTAL DEPTH 30.0'

Begin @ 1:30 p.m.

Boring Hand Augered to 5' Depth

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Soft	Non-Plastic			0			FILL - 2" of GRAVEL, 3/4" ø, angular.
						1			NATURAL - SILT, medium reddish-brown, locally Sandy, no odor.
						2			
						3			
						4			
Damp	—	Soft	Slt Plastic		0	5			Clayey SILT, medium brown, no odor.
						6			
						7			
						8			
Damp	—	Soft	Non-Plastic	1	0	9			
						10		3 4	Sandy SILT, medium reddish-brown, no odor.
						11			
						12			Silty CLAY, brown, mottled, no odor.
						13			
Damp	—	Medium Stiff	Slt. Plastic	2	0	14			
						15		4 8	Brownish-green, mottled, sticky, no odor.
						16			
						17			
						18			
Damp	—	Stiff	Slt Plastic			19			Reddish-brown to green, mottled, with wet, grey streaks, no odor.
				3	0	20		7 14	

WELL COMPLETION



S-12787 (1-85)

LOCATION MAP

See Page 1

SHELL OIL COMPANY — WELL LOG

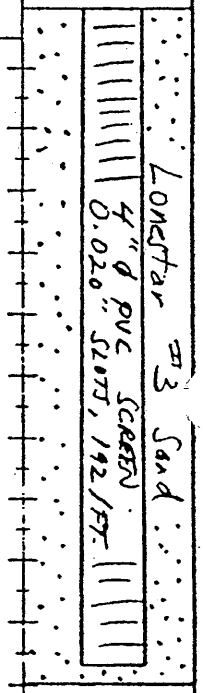
WELL NUMBER ▶ MW-9	LOCATION ▶ San Jose, California
DATE ▶ 3/16/88	WEATHER ▶
LOGGED BY ▶ L. NOBLER	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
ELEVATION ▶	GRAVEL PACK ▶ / SEAL ▶

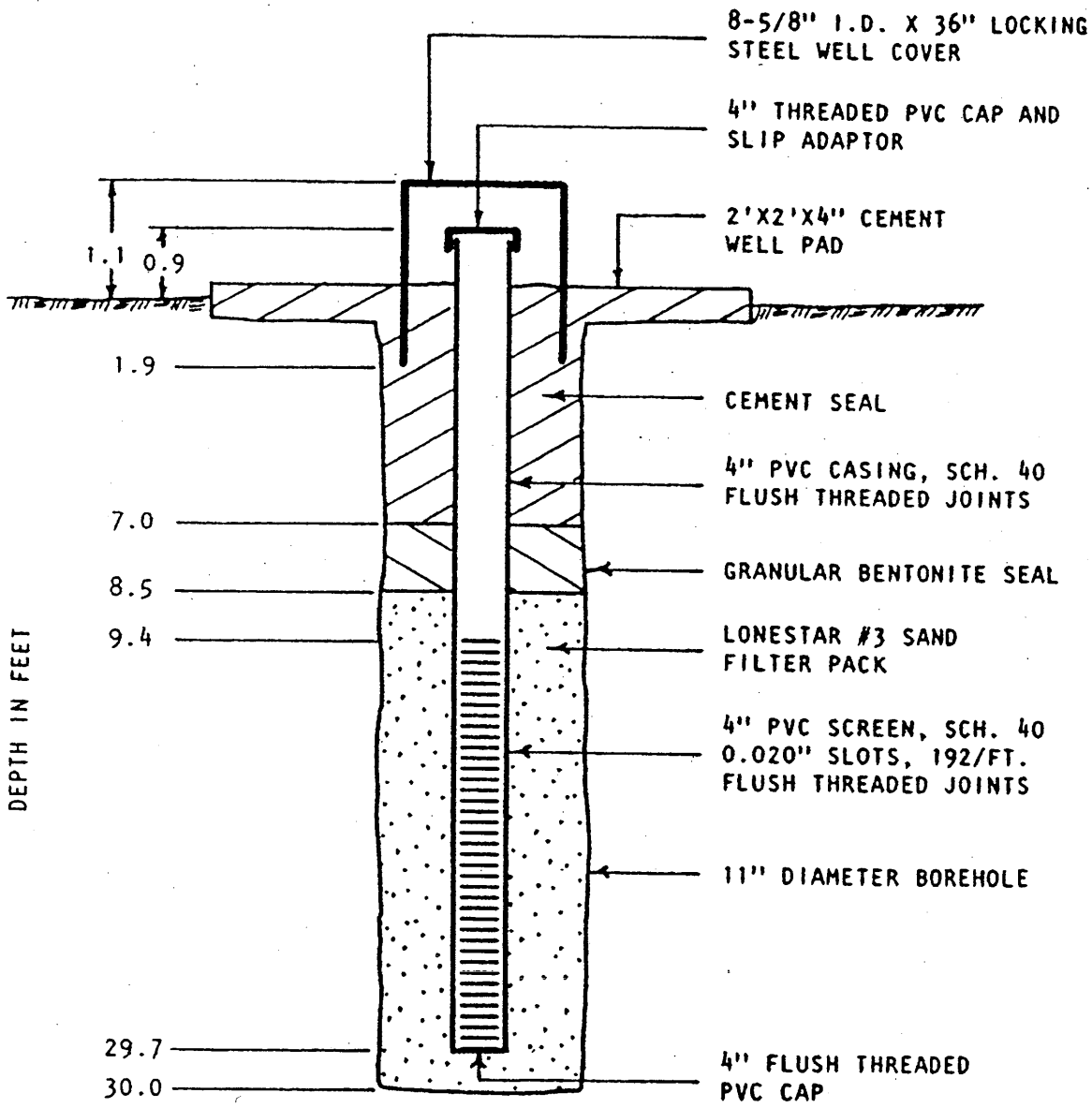
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 11"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 30.0'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D. (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Stiff	Slt. Plastic	3 4	0 0	20 21		7 14 21	As above.
						22			
						23			
						24			
Wet	—	Soft	Slt. Plastic	5	0	25		3 5	Light brown, no odor.
						26			
						27			
						28			
						29			Brown, mottled, grey streaks, no odor.
Saturated	—	Medium Stiff	Slt. Plastic	6	0	30		4 10	Total Depth: 30.0'. Install Well to 29.7'.
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





MONITORING WELL MW-9 CONSTRUCTION DETAILS

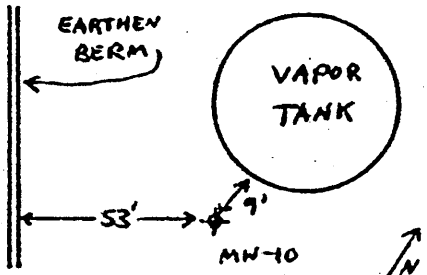
(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

LOCATION MAP



ELEVATION ▶ T.O.C. = 39.09'

WELL NUMBER	MW-10	LOCATION	SAN JOSE, CALIFORNIA
DATE	11/20/89	WEATHER	SUNNY, COOL
LOGGED BY	H.M. SPITZ	DRILLED BY	SPECTRUM EXPLORATION
DRILLING METHOD	HOLLOW STEM FLIGHT AUGER	SAMPLING METHOD	2" SPLIT SPOON SAMPLER 140# HAMMER, 30" DROP
GRAVEL PACK	LONESTAR #3 SAND FROM 8 TO 31.5'.	SEAL	CEMENT FROM 0-4' BENTONITE FROM 4-8'

CASING ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS DIAMETER 2" LENGTH 10' HOLE DIA 6"

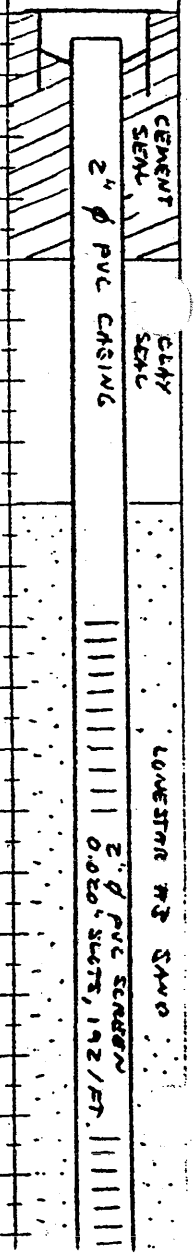
SCREEN ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 2" LENGTH 20' TOTAL DEPTH 31.5'

Begin drilling @ 10:10 AM

Boring hand-augered to 5' depth

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D.	DEPTH	BAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	1	Soft	Non-plastic			0–4			FILL - 4" of SILTY GRAVEL, 1" ø, Angular.
						4–8			NATURAL - SILT, light reddish brown, no odor.
						8–12			SILTY CLAY, dark blue-green, strong HC odor.
Damp	1	Medium Stiff	Slt. plastic	1	126	5–6	2 / 6		
						12–16			Increasing clay
Moist	1	Medium Stiff	Slt. plastic	2	38	10–11	2 / 5		CLAY, dark grey and brown, mottled, with grey streaks, HC odor.
Moist				3	53	15–16	5 / 11		Brown to dark grey, strong HC odor
Wet	1	Stiff	Slt. plastic			19			Wet @ 19'

WELL COMPLETION



S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

LOCATION MAP: SEE PAGE 1

WELL NUMBER ▶ MW-10	LOCATION ▶ SAN JOSE, CALIFORNIA
DATE ▶ 11/20/89	WEATHER ▶
LOGGED BY ▶ H.M. SPITZ	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

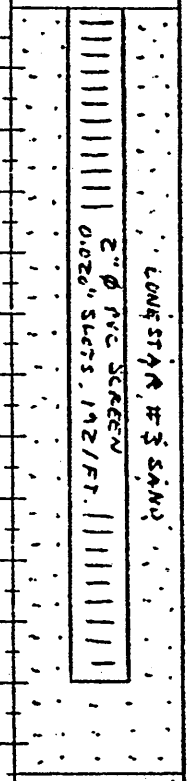
ELEVATION ▶

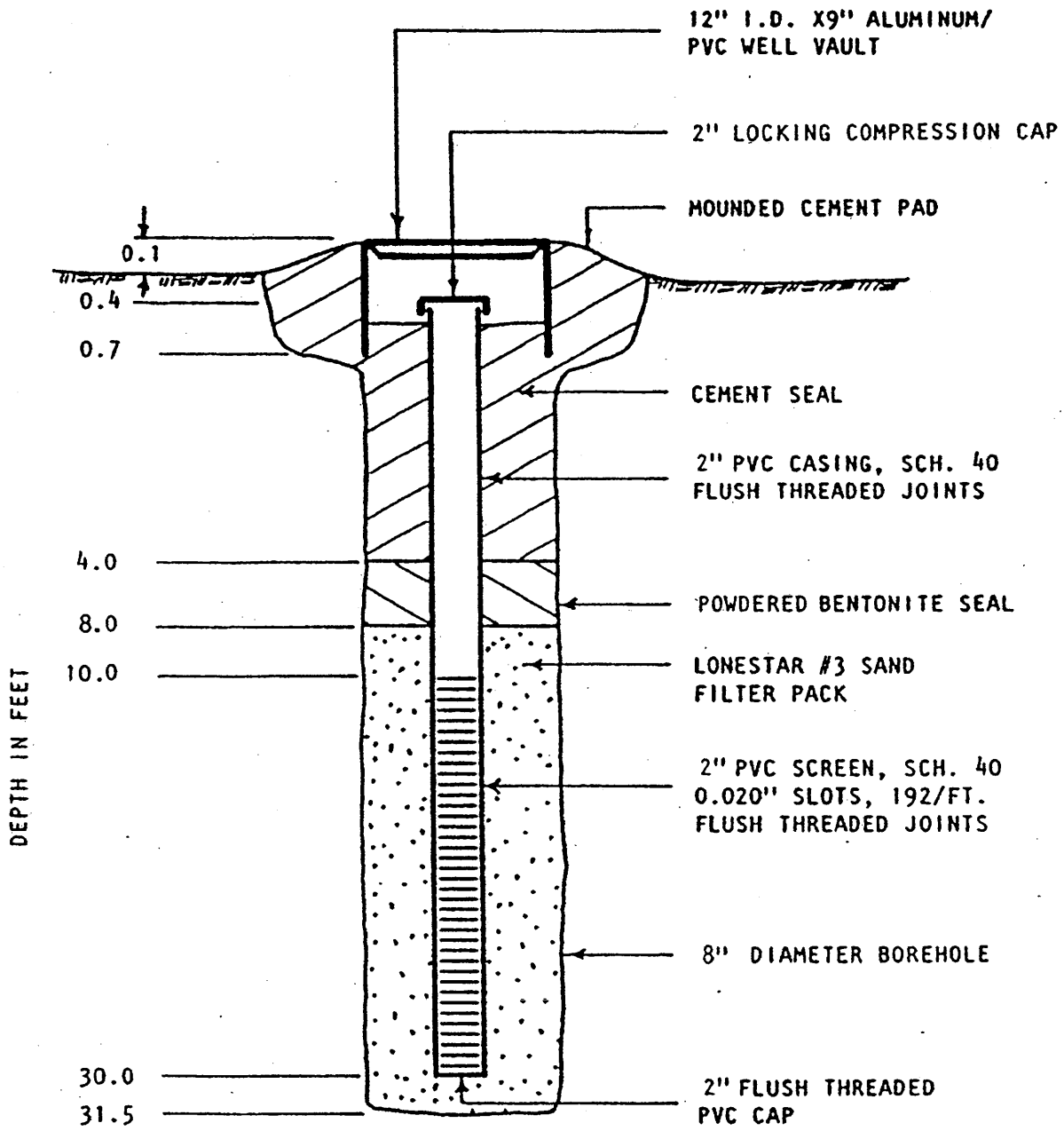
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 6"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 31.5'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D.	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
WET	/	Very Stiff	SIT. plastic		—	20		7	CLAY, brown, as above,
						21		20	strong HC odor
						22			No sample recovery
						23			
						24			
Saturated	/	Very stiff	SIT. plastic	4	0.	25		8	Light reddish-brown with
						26		17	grey streaks, slight HC odor
						27			
						28			
						29			
						30			
Saturated	/	Stiff	SIT. plastic	5	0	31		5	No odor
								13	
						32			
						33			TOTAL DEPTH = 31.5'.
						34			INSTALL WELL TO 30'.
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





MONITORING WELL MW-10
CONSTRUCTION DETAILS

(NOT TO SCALE)

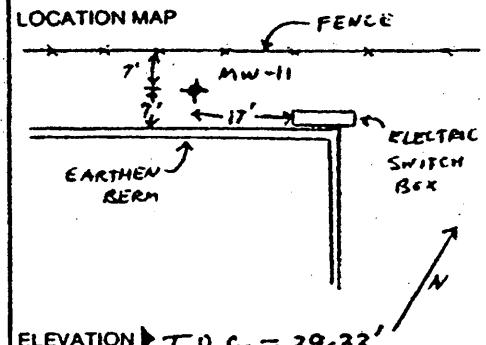
LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

PAGE 1 OF 2

LOCATION MAP



ELEVATION ▶ T.O.C. = 39.33'

WELL NUMBER ▶	MW-11	LOCATION ▶	SAN JOSE, CALIFORNIA
DATE ▶	11/21/89	WEATHER ▶	COOL, FOGGY
LOGGED BY ▶	H.M. SPITZ	DRILLED BY ▶	SPECTRUM EXPLORATION
DRILLING METHOD ▶	HOLLOW STEM FLIGHT AUGER	SAMPLING METHOD ▶	2" SPLIT SPOON SAMPLER 140 # HAMMER, 30" DROP
GRAVEL PACK ▶	LONESTAR #3 SAND FROM 8 TO 31.5'	SEAL ▶	CEMENT FROM 0-5' BENTONITE FROM 5-8'

CASING ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS DIAMETER 2" LENGTH 10' HOLE DIA 6"

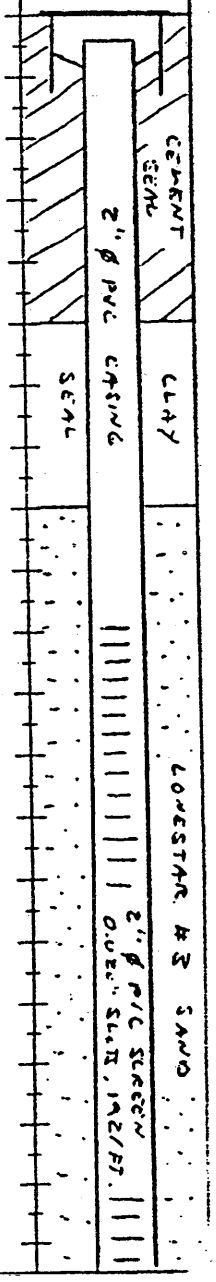
SCREEN ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 2" LENGTH 20' TOTAL DEPTH 31.5'

Begin drilling @ 9:25 AM.

Boring hand-augered to 5' depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	PID	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Slightly Damp	—	Soft	Non-plastic			0			FILL - 4" of SILTY GRAVEL, 1" ø, Angular
						1			NATURAL - SILT, light reddish-brown, no odor.
						2			
						3			
						4			CLAYEY SILT, reddish brown, no odor.
Damp	—	Medium Stiff	SIT. plastic	1	0	5		2 5	
						6			
						7			
						8			
						9			SILTY CLAY, reddish brown, no odor
Damp	—	Medium Stiff	SIT. plastic	2	0	10		2 6	
						11			Increasing clay
						12			
						13			
						14			CLAY, brown mottled with grey, with grey streaks, no odor
Moist	—	Medium Stiff	SIT. plastic	3	0	15		3 8	
						16			
						17			
						18			
						19			
						20			

WELL COMPLETION



S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

LOCATION MAP: SEE PAGE 1

ELEVATION ▶

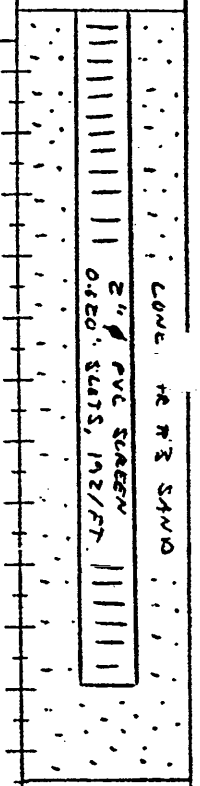
WELL NUMBER ▶ MW-11	LOCATION ▶ SAN JOSE, CALIFORNIA
DATE ▶ 11/21/89	WEATHER ▶
LOGGED BY ▶ H.M. SPITZ	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

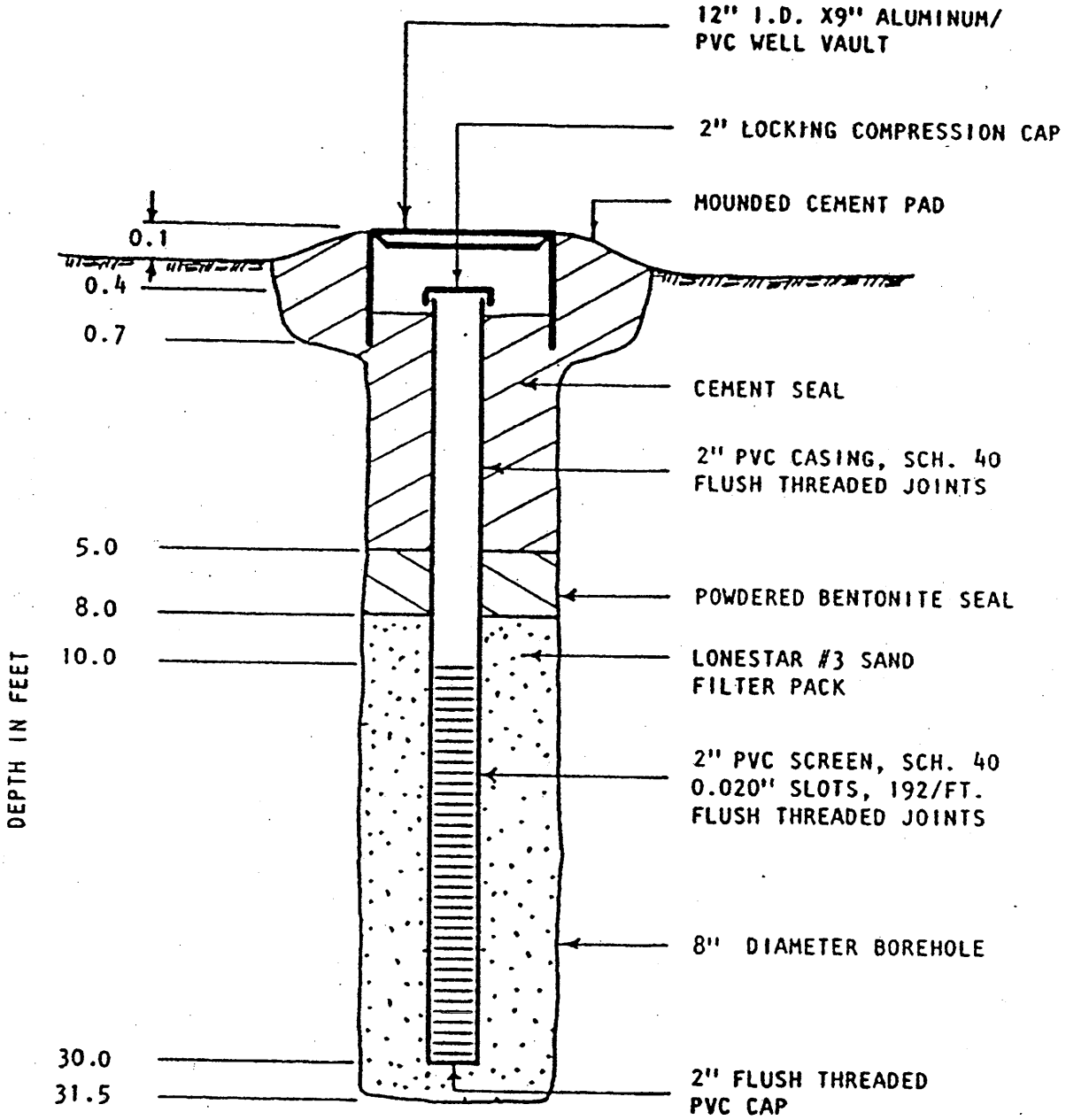
CASING ▶ TYPE DIAMETER LENGTH HOLE DIA 6"

SCREEN ▶ TYPE SLOT DIAMETER LENGTH TOTAL DEPTH 31.5'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.T.D.	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Moist	—	Very stiff	Slt. plastic	4	0	20		5	CLAY, As above, no odor.
						21		16	
						22			
						23			
						24			
Wet	—	Stiff	Slt. plastic	5	0	25		5	Light brown, no odor.
						26		14	
						27			
						28			
						29			
Saturated	—	Stiff	Slt. plastic	6	0	30		5	Light brown, with grey streaks, no odor.
						31		10	
						32			TOTAL DEPTH = 31.5'
						33			INSTALL WELL TO 30'.
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION





MONITORING WELL MW-11 CONSTRUCTION DETAILS

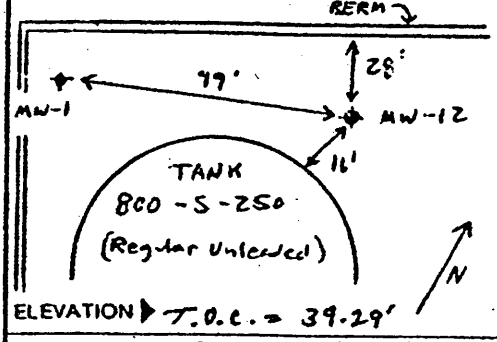
(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

LOCATION MAP



ELEVATION ▶ T.O.C. = 39.29'

WELL NUMBER ▶	MW-12	LOCATION ▶	SAN JOSE, CALIFORNIA
DATE ▶	11/21/89	WEATHER ▶	COOL, FOGGY
LOGGED BY ▶	H.M. SPITZ	DRILLED BY ▶	SPECTRUM EXPLORATION
DRILLING METHOD ▶	HOLLOW STEM FLIGHT AUGER	SAMPLING METHOD ▶	2" SPLIT SPOON SAMPLER 140# HAMMER, 30" DROP
GRAVEL PACK ▶	LONESTAR #3 SAND FROM 7 TO 30'	SEAL ▶	CEMENT FROM 0-5' BENTONITE FROM 5-7'

CASING ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS DIAMETER 2" LENGTH 10' HOLE DIA 6"

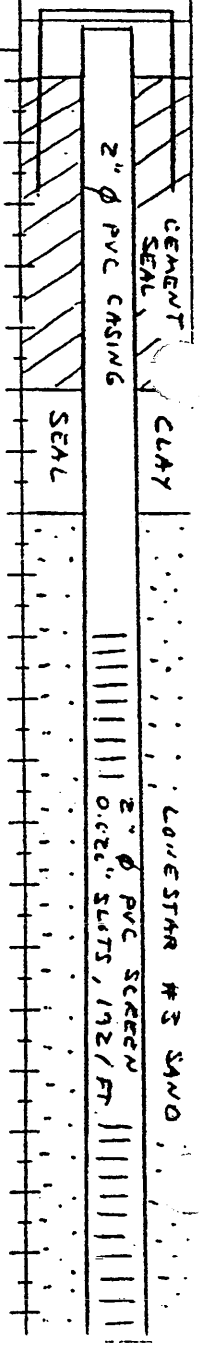
SCREEN ▶ TYPE SCHEDULE 40 PVC WITH FLUSH THREADED JOINTS SLOT 0.020" 192/FT. DIAMETER 2" LENGTH 20' TOTAL DEPTH 30'

Begin drilling @ 11:05 AM

Boring hand-augured to 5' depth.

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.F.P.	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Damp	—	Soft	Non plastic			0			FILL - 2" of SILTY GRAVEL, 1" ø, Angular
						1			NATURAL - SILT, reddish brown, no odor.
						2			
						3			
		Med. ST. FF				4			Dark brown, increasing clay.
Damp	—		SIT. plastic	1	0	5		3	CLAYEY SILT, reddish brown, mottled, no odor
						6		9	
						7			
						8			
		Medium ST. FF				9			SILTY CLAY, reddish brown, mottled, no odor
Damp	—		SIT plastic	2	0	10		3	
						11		7	
						12			
						13			
		Medium STIFF				14			CLAY, reddish brown, mottled with grey, with grey streaks, no odor
Moist	—		SIT plastic	3	0	15		5	
						16		7	
						17			
						18			
						19			
						20			

WELL COMPLETION



S-12787 (1-85)

SHELL OIL COMPANY — WELL LOG

LOCATION MAP: SEE PAGE 1

ELEVATION ▶

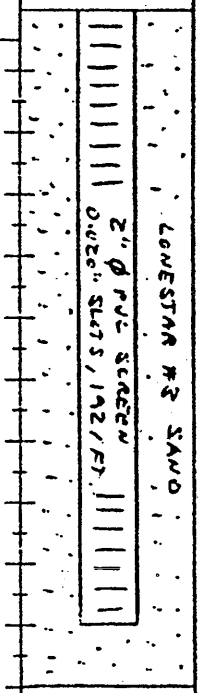
WELL NUMBER ▶ MW-12	LOCATION ▶ SAN JOSE, CALIFORNIA
DATE ▶ 11/21/89	WEATHER ▶
LOGGED BY ▶ H.M. SPITZ	DRILLED BY ▶
DRILLING METHOD ▶	SAMPLING METHOD ▶
GRAVEL PACK ▶	SEAL ▶

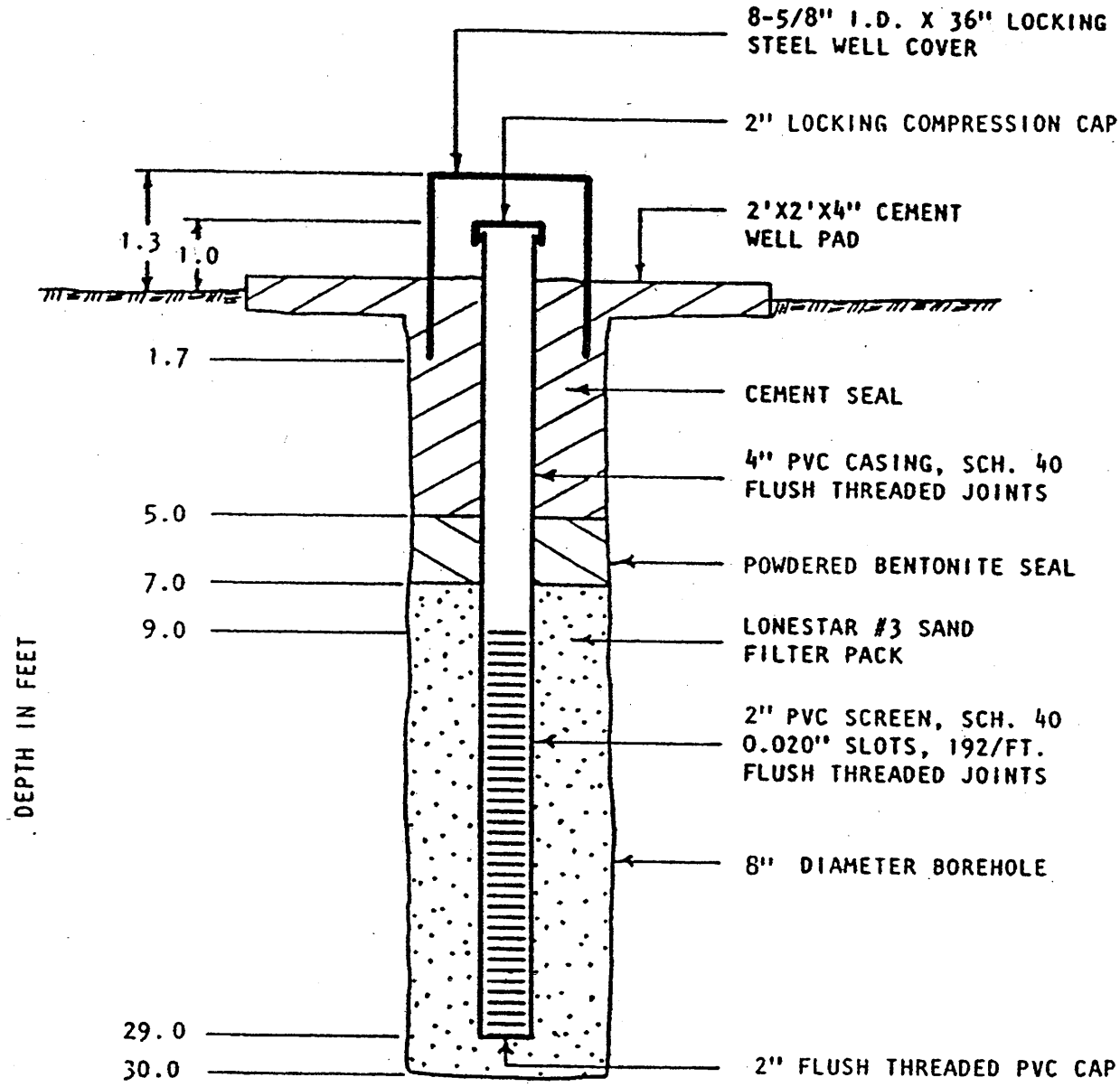
CASING ▶ TYPE | DIAMETER | LENGTH | HOLE DIA 6"

SCREEN ▶ TYPE | SLOT | DIAMETER | LENGTH | TOTAL DEPTH 30'

MOISTURE CONTENT	SORTING	DENSITY	PLASTICITY	SAMPLE NO.	P.I.D.	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY/REMARKS
Moist	—	Very stiff	Slt. plastic	4	28	20		7	CLAY, As above, with blue grey streaks, slight HC odor.
						21		18	
						22			
						23			
						24			
Wet	—	Stiff	Slt. plastic	5	1.5	25		5	Light reddish brown, with grey streaks, very slight HC odor
						26		11	
						27			
						28			
Saturated	—	Stiff	Slt. plastic	6	0	29		5	As above, No odor.
						30		12	
						31			TOTAL DEPTH = 30' INSTALL WELL TO 29'.
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			

WELL COMPLETION



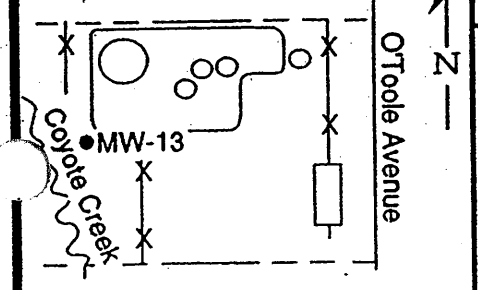


MONITORING WELL MW-12 CONSTRUCTION DETAILS

(NOT TO SCALE)

LeROY CRANDALL AND ASSOCIATES

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-13
PAGE 1 OF 2

PROJECT NO. 305-10.03
LOGGED BY: DA
DRILLER: GREGG DRILLING
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.02"
GRAVEL PACK: #3 SAND

CLIENT: SHELL
DATE DRILLED: 9-22-93
LOCATION: 2165 O'Toole Avenue
HOLE DIAMETER: 10"
HOLE DEPTH: 30'
WELL DIAMETER: 4"
WELL DEPTH: 28'
CASING STICKUP: 3'

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Dry			1	ML	SILT: dark yellowish brown; 10-20% very fine sand; low plasticity; no product odor.
				2	GM	SILTY GRAVEL: fine gravel; 40-50% silt.
	Dp			3	ML	SILT: dark yellowish brown; 10-20% very fine sand; low plasticity; stiff; trace fine gravel; no product odor.
				4		
	Dp	0	9	5		@5': stiff; no product odor.
				6		
				7		
				8		
				9		@9': same as above.
BENTONITE	Dp	0	12	10	CL	SANDY CLAY: very dark brown; silty sand lenses; organic matter in rootholes; yellowish staining; moderate plasticity; stiff; no product odor.
				11	CL	SANDY CLAY: dark yellowish brown; 20-30% very fine to fine sand; stiff; moderate plasticity; weak product odor.
#3 LONESTAR SAND				12	CL	CLAY: very dark brown; dark gray stained rootholes; 10% very fine sand; sandy clay lenses; organic matter in rootholes; stiff; no product odor.
				13		
			16	14		
	Mst	0		15		
				16		
				17		
				18		
	Mst-Wt	0	27	19		@20': dark grayish brown; dark gray stained rootholes (5/mm); trace fine sand; high plasticity; very stiff; no product odor.
				20		
				21		
				22		

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

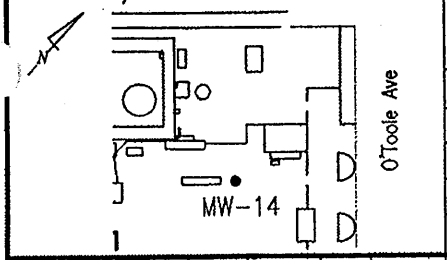
WELL NO. MW-13
PAGE 2 OF 2

PROJECT NO. 305-10.03
LOGGED BY:
DRILLER:
DRILLING METHOD:
SAMPLING METHOD:
CASING TYPE:
SLOT SIZE:
GRAVEL PACK:

CLIENT: SHELL
DATE DRILLED:
LOCATION:
HOLE DIAMETER:
HOLE DEPTH:
WELL DIAMETER:
WELL DEPTH:
CASING STICKUP:

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
#3 LONESTAR SAND; 4" PVC					23				CL	CLAY: yellowish brown; gray and black roothole staining (1-2 mm); organic matter; 5% very fine sand; high plasticity; very stiff; no product odor.
					24					
		Sat	0	18	25					
					26					
					27					
					28					
		Sat	0	17	29					
					30					@30': light gray roothole staining only; very stiff; no product odor.
					31					
					32					BOTTOM OF BORING AT 30'
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-14
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
DRILLED BY: Gregg Drilling	TOC ELEV.:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 25'

Grout Type/Qty: Portland	Total Well Depth: 25'
Grout Interval: 0-6"	Casing Diameter: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Casing Type: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

4" Sch 40 PVC

BENTONITE

#2/12 SAND

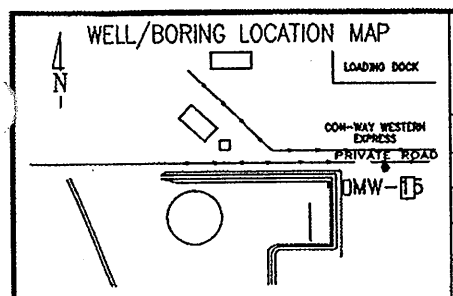
0.020" SLOTTED SCREEN

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL / RECOVERY / RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
						GP	GRAVEL: Baserock
1						ML	SILT: mid brown; 90% fines; <10% fine sand; moderate subangular blocky; low plasticity; blocky peds; homogenous; no product odor.
2							
3	Dp						
4							
5		3					
6	Dp						
7							
8	Dp- Mst	11					@8.5': moisture (wet) along angular blocky ped surfaces; no product odor.
9							
10	Dp	18					@9.5': as above; minor gray mottling; no moisture noticeable along strong angular block peds; weak product odor (sweat)
11							Hand augered to 10' bgs.
12							
13	▽ VMst	224					@13': as above; very soft due to increased moisture content; moderate to strong product odor.
14							@14': as above; minor fine secondary porosity.
15	Mst	355					@15.5': as above; soft; 1/2" thick gravel horizon at 16' bgs.
16	Dp- Mst						
17							
18	Dp						@18': as above; mid to dark brown with depth; very stiff; no product odor.
19							
20		15				CL	CLAY: mid brown; 90% fines; <10% fine gravel; weak to moderate sub angular blocky; medium stiff; minor clay lined secondary porosity; no product odor.
21	Dry						
22							

WELL/BORING LOCATION MAP	Boring / Well Log TOXICHEM Management Systems, Inc.	WELL/BORING: MW-14 PAGE: 2 of 2 LOGGED BY: DC
SEE PAGE ONE	LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12
	CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
	DRILLED BY:	NORTHING:
	DRILLING METHOD/DIA.:	EASTING:
	SAMPLING METHOD:	TOTAL DEPTH: 25'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
#2/12 SAND							23						
						11	24						@23.5': CLAYEY SILT; brown with gray mottling; 90% fines; 10% fine sand; very stiff; low plasticity.
				Mst		15							
						18	25						
	0.020" SLOTTED SCREEN						26						BOTTOM OF BORING AT 25'
							27						
							28						
							29						
							30						
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-15
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 30'

Grout Type/Qty: Portland	Total Well Depth: 30'
Grout Interval: 0-6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

4" Sch 40 PVC

BENTONITE

#2/12 SAND

0.020" SLOTTED SCREEN

Depth (feet)	Moisture Content	PID (ppm)	Density Blows/6"	Soil Type	Description
	Dry				GRAVEL/ROAD BASE
1	Dp	--		ML	SANDY SILT: brown; 80% silt; 20% fine sand; no plasticity; no product odor.
2					
3					
4		2.8			
5					
6					
7	Dp	39.4			@7': SILT; dark greenish gray; 10% clay; 85% silt; 5% fine sand; low plasticity; strong product odor.
8		132			
9	Dp				@9': as above; 10% clay; 90% fine sand.
10					@10': as above; 5% clay; 95% silt; very low plasticity; strong product odor.
11	Mst				
12		86.8			
13					
14					@13.5': increasing clay with depth.
15	Dp				@15': CLAYEY SILT; mottled brown and grayish brown; 30% clay; 70% silt; no plasticity; slight product odor.
16					
17	Dp			CL	SILTY CLAY: dark brown; 55% clay; 45% silt; medium to high plasticity; slight product odor.
18					
19					
20					
21					
22					

WELL/BORING LOCATION MAP

SEE PAGE ONE

Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-15
PAGE: 2 of 2
LOGGED BY: DC

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
DRILLED BY:	NORTHING:
DRILLING METHOD/DIA.:	EASTING:
SAMPLING METHOD:	TOTAL DEPTH: 30'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL | CASING | SEAL

#2/12 SAND

BLANK PVC

0.020" SLOTTED SCREEN

DEPTH (FEET)	DENSITY BLOWS/6"	SOIL TYPE	DESCRIPTION
23			
24	8, 16, 22		@23.5': CLAYEY SILT; brown with gray mottling; 90% fines; 10% fine sand; very stiff; low plasticity; dense; blocky.
25			
26			
27			
28			
29	8, 10, 11	CL	SILTY CLAY: light brown with gray mottling; 90% fines; 10% fine sand; medium stiff; moderate plasticity.
30			BOTTOM OF BORING AT 30'
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			

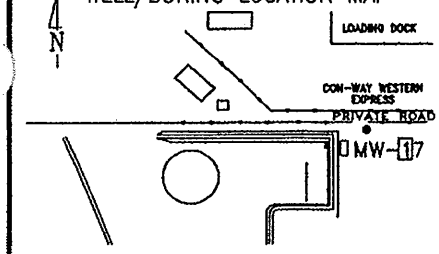
SAMPLE: INTERVAL | RECOVERY | RETAINED

SOIL GRAPHIC

MOISTURE CONTENT

PID (ppm)

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-17
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/31/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 30'

Grout Type/Qty: Portland	Total Well Depth: 30'
Grout Interval: 0-6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

BENTONITE

4" Sch 40 PVC

#2/12 SAND

0.020" SLOTTED SCREEN

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL / RECOVERY / RETAINED	SOIL TYPE	DESCRIPTION
						ASPHALT
1	Dp				ML	SILT: brown; 5% clay; 90% silt; 5% fine sand; no plasticity; no product odor.
2						
3						
4						
5						
6						
7	Dp					@7': as above; 90% silt; 10% fine sand.
8						
9						
10	Dp					@10': as above; dark brown; 10% clay; 80% silt; 10% fine sand; low plasticity; no product odor.
11						
12						
13						
14						
15	Mst					@15': as above; mottled light brown and orangish brown; 5% clay; 85% silt; 10% fine sand; very low plasticity.
16						
17						
18					CL	SANDY SILTY CLAY: dark grayish brown; 40% clay; 30% silt; 30% coarse sand; medium plasticity; no product odor.
19						
20						
21						
22						

WELL/BORING LOCATION MAP	Boring / Well Log TOXICHEM Management Systems, Inc.	WELL/BORING: MW-17 PAGE: 2 of 2 LOGGED BY: DC
SEE PAGE ONE	LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
	CITY/STATE: San Jose, California	DATE DRILLED: 5/31/02
	DRILLED BY:	NORTHING:
	DRILLING METHOD/DIA.:	EASTING:
	SAMPLING METHOD:	TOTAL DEPTH: 30'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
#2/12 SAND	BLANK PVC	0.020" SLOTTED SCREEN					23						
						9	24						@23.5': SILTY CLAY; gray with brown mottling; 95% fines; 5% fine sand; stiff; moderate plasticity.
				Mst		16							
				-Wt		20	25						
							26						
							27						
							28						
						7	29						@28.5': as above; light brown.
				Mst		9							
						10	30						BOTTOM OF BORING AT 30'
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						

WELL/BORING LOCATION MAP

N

TRUCK WASH

EXPRESS

MW-18

LOADING DOCK

Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-18
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/29/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 25'

Grout Type/Qty: Portland	Total Well Depth: 25'
Grout Interval: 0–6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6–8'	Screen Interval: 10–25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

BENTONITE

4" Sch 40 PVC

#2/12 SAND

0.020" SLOTTED SCREEN

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SOIL TYPE	DESCRIPTION
					ASPHALT
1	Dry			SP	SAND: brown; 100% fine to medium sand; no plasticity; high permeability.
2					
3				SM	SILTY SAND: brown; 30% silt; 70% fine sand; no plasticity; medium permeability.
4					
5				ML	SANDY SILT: brown; 70% slt; 30% fine sand; low to medium plasticity; low permeability.
6					
7					
8					@8': as above; 80% silt; 15% fine sand.
9					
10					
11					SILT: brown; 90% silt; 10% sand; medium plasticity; low permeability.
12		0			
13	Mst				
14					@14': as above; 100% silt.
15					
16		24.5			@16': as above; green.
17					
18	Wt / Dry	76.4			@18': as above; hard.
19					
20					
21					
22					

WELL/BORING LOCATION MAP

SEE PAGE ONE

Boring / Well Log

TOXICHEM Management Systems, Inc.

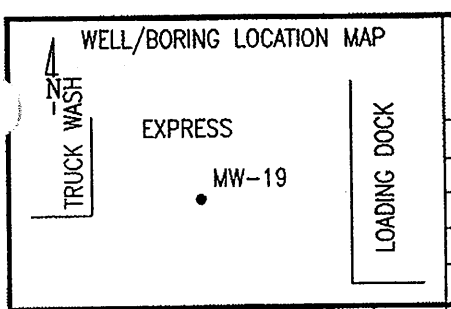
WELL/BORING: MW-18
PAGE: 2 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/29/02
DRILLED BY:	NORTHING:
DRILLING METHOD/DIA.:	EASTING:
SAMPLING METHOD:	TOTAL DEPTH: 25'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
#2/12 SAND							23						
						10	24						@23.5': CLAYEY SILT; dark brown; 10% fine sand; 90% fines; very stiff; low plasticity.
						16							
						22	25						
	0.020" SLOTTED SCREEN						26						BOTTOM OF BORING AT 25'
							27						
							28						
							29						
							30						
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-19
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/31/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 30'

Grout Type/Qty: Portland	Total Well Depth: 30'
Grout Interval: 0-6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

BENTONITE

4" Sch 40 PVC

0.020" SLOTTED SCREEN

#2/12 SAND

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SOIL TYPE	DESCRIPTION
					ASPHALT
1	Dry			SP	SAND: brown; 100% fine to medium sand; no plasticity; high permeability.
2					@2': as above; light brown; 100% medium sand.
3					
4				SM	SILTY SAND: brown; 30% silt; 70% fine sand; no plasticity; medium to low permeability.
5		0			
6					
7					
8				ML	SILT: brown green; 100% silt; soft; medium plasticity; low permeability.
9					
10					
11					
12	Mst	0			
13					
14					
15					
16		58.7			
17	Wt				
18	Wt / Dry	36.8			@18': as above; hard.
19					
20					
21					
22					

SAMPLE: INTERVAL, RECOVERY, RETAINED

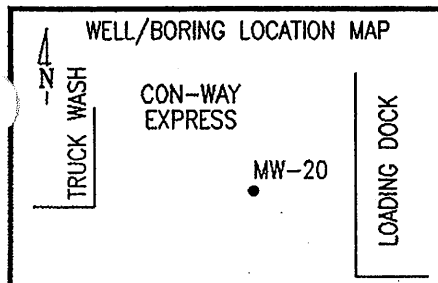
SOIL GRAPHIC

WELL/BORING LOCATION MAP	Boring / Well Log TOXICHEM Management Systems, Inc.	WELL/BORING: MW-19 PAGE: 2 of 2 LOGGED BY: DC
SEE PAGE ONE	LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
	CITY/STATE: San Jose, California	DATE DRILLED: 5/31/02
	DRILLED BY:	NORTHING:
	DRILLING METHOD/DIA.:	EASTING:
	SAMPLING METHOD:	TOTAL DEPTH: 30'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
							23						
						11	24						@23.5': CLAYEY SILT; brown with dark gray mottling; 90% fines; 10% fine sand; stiff; low plasticity.
				Mst		15							
						18	25						
#2/12 SAND	BLANK PVC	0.020" SLOTTED SCREEN					26						
							27						
							28						
				Mst		8	29					CL	SILTY CLAY: light brown; 90% fines; 10% fine sand; stiff; moderate plasticity.
						11							
						16	30						BOTTOM OF BORING AT 30'
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-20
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 25'

Grout Type/Qty: Portland	Total Well Depth: 25'
Grout Interval: 0-6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

4" Sch 40 PVC

BENTONITE

#2/12 SAND

0.020" SLOTTED SCREEN

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SOIL TYPE	DESCRIPTION
1				SP	ASPHALT SILT: brown; 100% silt; soft.
2					
3				ML	SANDY SILT: light brown; 70% silt; 30% fine sand; soft; low to medium plasticity; low permeability.
4					
5	Dry	0			
6					
7					
8					
9					
10					
11	Mst	0			
12					
13					
14					
15	Wt				
16					
17					
18					
19					
20	Dry				@20': SILT; 100% silt; medium plasticity; low permeability.
21					
22					

WELL/BORING LOCATION MAP	Boring / Well Log TOXICHEM Management Systems, Inc.	WELL/BORING: MW-20 PAGE: 2 of 2 LOGGED BY: DC
SEE PAGE ONE	LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
	CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
	DRILLED BY:	NORTHING:
	DRILLING METHOD/DIA.:	EASTING:
	SAMPLING METHOD:	TOTAL DEPTH: 25'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CONSTRUCTION: CASING	CONSTRUCTION: SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
#2/12 SAND							23						
						11	24						@23.5': SILTY CLAY; light brown; 90% fines; 10% fine sand; stiff; moderate plasticity.
						16							
						21	25						
	0.020" SLOTTED SCREEN						26						BOTTOM OF BORING AT 25'
							27						
							28						
							29						
							30						
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						

WELL/BORING LOCATION MAP

N

TRUCK WASH

MW-21

EXPRESS

LOADING DOCK

Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-21
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/29/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 25'

Grout Type/Qty: Portland	Total Well Depth: 25'
Grout Interval: 0-6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

4" Sch 40 PVC

BENTONITE

#2/12 SAND

0.020" SLOTTED SCREEN

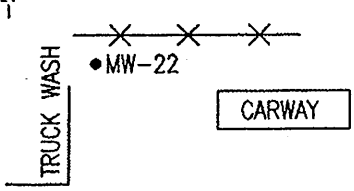
DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	SOIL TYPE	DESCRIPTION
1			SP	ASPHALT SAND: light brown; 100% fine sand; no plasticity; low permeability.
2				
3				
4				
5	Dry	0		
6			ML	SANDY SILT: brown; 70% silt; 30% fine sand; low to medium plasticity; low permeability.
7				
8				
9				
10				
11				
12		0		SILT: brown; 90% silt; 10% fine sand; medium plasticity; low permeability.
13	Mst			
14				
15				
16		0.1		@16': as above; 100% silt.
17	Wt			
18		15.9		
19	Dry			@19': as above; hard.
20				
21				
22				

WELL/BORING LOCATION MAP	Boring / Well Log TOXICHEM Management Systems, Inc.	WELL/BORING: MW-21 PAGE: 2 of 2 LOGGED BY: DC
SEE PAGE ONE	LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
	CITY/STATE: San Jose, California	DATE DRILLED: 5/29/02
	DRILLED BY:	NORTHING:
	DRILLING METHOD/DIA.:	EASTING:
	SAMPLING METHOD:	TOTAL DEPTH: 25'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
#2/12 SAND							23						
						13	24						@23.5': CLAYEY SILT; light brown; 10% fine sand; 65% silt; very stiff; low plasticity.
						24							
						28	25						
	0.020" SLOTTED SCREEN						26						BOTTOM OF BORING AT 25'
							27						
							28						
							29						
							30						
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: MW-22
PAGE: 1 of 2
LOGGED BY: DC

LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
CITY/STATE: San Jose, California	DATE DRILLED: 5/30/02
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: HSA/10"	EASTING:
SAMPLING METHOD: Split Spoon	TOTAL DEPTH: 30'

Grout Type/Qty: Portland	Total Well Depth: 30'
Grout Interval: 0-6"	Casing Dia./Type: 4" Sch 40 PVC
Seal Type/Qty: Bentonite	Sand Type/Qty: #2/12
Seal Interval: 6-8'	Screen Interval: 10-25'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT; 4" Sch 40 PVC; BENTONITE; #2/12 SAND; 0.020" SLOTTED SCREEN

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL / RECOVERY / RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
							ASPHALT
1	Dry					ML	SANDY SILT: brown; 80% silt; 20% fine sand; low plasticity.
2							
3							
4							
5		0					
6							
7							
8	Dry	1.0					@8': SILT; brown; 5% clay; 85% silt; 10% fine sand; low plasticity.
9							
10							
11							
12	Mst	0					
13							
14							
15							
16	Mst	27.3					@16': CLAYEY SILT; brown green mottled; 20% clay; 80% silt; medium plasticity.
17							
18	Dry	35.0					
19							
20							@20': as above; brown olive mottled; 40% clay; 60% silt.
21							
22							

WELL/BORING LOCATION MAP	Boring / Well Log TOXICHEM Management Systems, Inc.	WELL/BORING: MW-22 PAGE: 2 of 2 LOGGED BY: DC
SEE PAGE ONE	LOCATION: 2171 O'Toole Ave	CLIENT/PROJECT: EQ-12
	CITY/STATE: San Jose, California	DATE DRILLED: 5/29/02
	DRILLED BY:	NORTHING:
	DRILLING METHOD/DIA.:	EASTING:
	SAMPLING METHOD:	TOTAL DEPTH: 30'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
#2/12 SAND	BLANK PVC	0.020" SLOTTED SCREEN					23						
						10	24						@23.5': CLAYEY SILT; brown with gray to black mottling; 30% clay; 60% silt; 10% very fine to fine sand; hard; low plasticity.
				Mst		19							
						30	25						
							26						
							27						
							28						
							29					CL	SANDY CLAY: brown; 20% very fine to fine sand; 80% fines; moderate plasticity.
							30						BOTTOM OF BORING AT 30'
							31						
							32						
							33						
							34						
							35						
							36						
							37						
							38						
							39						
							40						
							41						
							42						
							43						
							44						

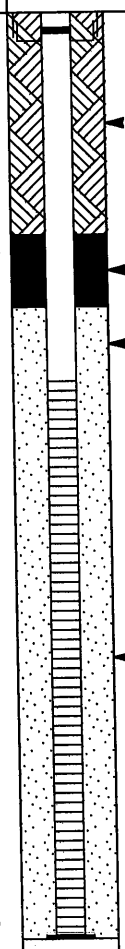
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-23
JOB/SITE NAME	San Jose Terminal	DRILLING STARTED	11-Dec-07
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	11-Dec-07
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Test America Drilling Corp.	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10"	SCREENED INTERVAL	10 to 25 fbg
LOGGED BY	W. Kirchanski	DEPTH TO WATER (First Encountered)	20.0 ft (11-Dec-07)
REVIEWED BY	J. Gaarder	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	SOIL DESCRIPTION	CONTACT DEPTH (fbg)
			ASPHALT		**ASPHALT**	0.4
					SILT (ML); olive brown (2.5Y 4/4); dry; 5% clay, 85% silt, 5% fine to coarse sand, 5% fine gravel; low plasticity. @ 1' - olive brown (2.5Y 4/3); 5% clay, 85% silt, 10% fine sand.	
0	9 12 15	MW-23-5.5'	5		@ 5' - hard.	
0	8 10 11	MW-23-10'	10		@ 10' - hard.	
				ML		
0	13 17 21	MW-23-15'	15		@ 14.5' - hard; 10% clay, 85% silt, 5% fine sand; medium plasticity.	
5	11 20 23	MW-23-20'	20		@ 19' - black (2.5Y 2.5/1); 5% clay, 85% silt, 10% fine to coarse sand; low plasticity. @ 20' - hard; wet.	
0	15 15 19	MW-23-25'	25		@ 23.5' - olive brown (2.5Y 4/4); hard; moist; 10% clay, 85% silt, 5% fine sand; medium plasticity.	25.0
			30			
			35			

WELL DIAGRAM



Bottom of Boring @ 25 ft

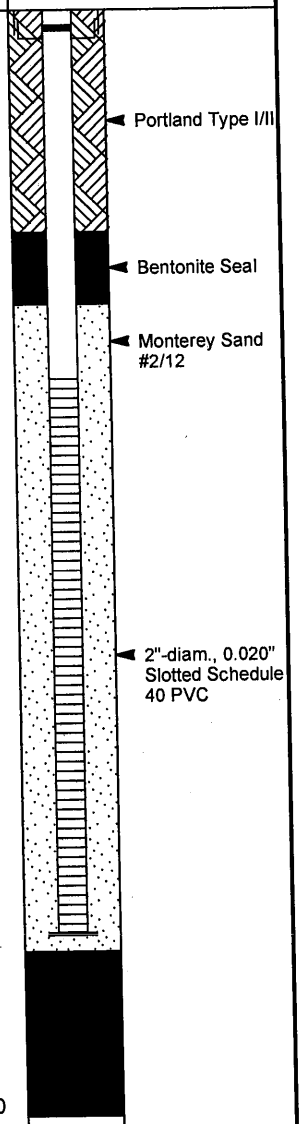
WELL LOG (PID) I:\SONOMA_SHELL\SAN JOSE 2165 O'TOOLE AVE\GINT\241181.GPJ DEFAULT.GDT 6/24/08

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-24
JOB/SITE NAME	San Jose Terminal	DRILLING STARTED	11-Dec-07
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	11-Dec-07
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Test America Drilling Corp.	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10"	SCREENED INTERVAL	10 to 25 fbg
LOGGED BY	W. Kirchanski	DEPTH TO WATER (First Encountered)	20.0 ft (11-Dec-07)
REVIEWED BY	J. Gaarder	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	SOIL DESCRIPTION	CONTACT DEPTH (fbg)
			ASPHALT		**ASPHALT**	0.4
					SILT (ML); olive brown (2.5Y 4/4); dry; 5% clay, 85% silt, 5% fine to coarse sand, 5% fine gravel; low plasticity. @ 1' - olive brown (2.5Y 4/3); 5% clay, 85% silt, 10% fine sand.	
0	6 10 12	MW-24-5.5'	5		@ 5' - firm.	
0	7 9 13	MW-24-10'	10		@ 10' - firm.	
0	9 15 18	MW-24-15'	15	ML	@ 14' - dark olive brown (2.5Y 3/3); hard; 10% clay, 85% silt, 5% fine sand.	
220	15 17 18	MW-24-20'	20		@ 18.5' - grayish brown (2.5Y 5/2); hard; moist; 10% clay, 85% silt; 5% fine sand. @ 20' - wet.	
0.3	9 12 15	MW-24-25'	25		@ 24' - olive brown (2.5Y 4/3); hard; 10% clay, 85% silt, 5% fine sand.	
0.0	10 13 8	MW-24-30'	30		@ 29' - olive brown (2.5Y 4/4); firm; wet; 5% clay, 85% silt, 10% fine sand.	30.0
			35			



WELL LOG (PID) I:\SONOMA.SHELL\SAN JOSE 2165 O'TOOLE AVE\GINT\241181.GPJ DEFAULT.GDT 6/24/08

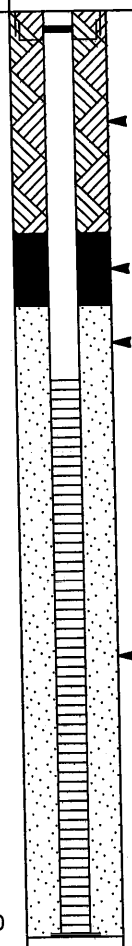
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-25
JOB/SITE NAME	San Jose Terminal	DRILLING STARTED	12-Dec-07
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	12-Dec-07
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Test America Drilling Corp.	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10"	SCREENED INTERVAL	10 to 25 fbg
LOGGED BY	W. Kirchanski	DEPTH TO WATER (First Encountered)	20.0 ft (12-Dec-07)
REVIEWED BY	J. Gaarder	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	SOIL DESCRIPTION	CONTACT DEPTH (fbg)
				ASPHAL	ASPHALT	0.4
				SM	Silty SAND (SM); olive brown (2.5Y 4/4); dry; 45% silt, 50% fine to coarse sand, 5% fine gravel; low plasticity.	1.0
					SILT (ML); olive brown (2.5Y 4/3); dry; 5% clay, 85% silt, 5% fine sand, 5% fine gravel; low plasticity.	
			5		@ 5' - soft; 5% clay, 85% silt, 10% fine to coarse sand.	
0	3 5 6	MW-25-5.5'				
			10		@ 9' - firm.	
0	6 7 10	MW-25-10'				
				ML		
			15		@ 14' - firm; 10% clay, 85% silt, 5% fine to coarse sand.	
0	7 9 13	MW-25-15'				
			20		@ 19' - hard.	
	12 13 15	MW-25-20'				
					@ 23.5' - black (2.5Y 2.5/1); hard.	25.0
	13 17 18	MW-25-25'	25			
			30			
			35			

WELL DIAGRAM



Bottom of Boring @ 25 ft

WELL LOG (PID) I:\SONOMA.SHELL\SAN JOSE 2165 O'TOOLE AVE\GINT\241181.GPJ DEFAULT.GDT 6/24/08

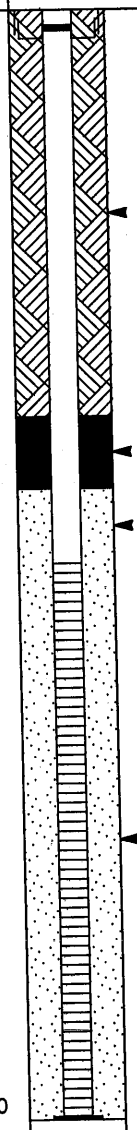
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476
Telephone: 707-935-4850
Fax: 707-935-6649

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	P-1
JOB/SITE NAME	San Jose Terminal	DRILLING STARTED	12-Dec-07
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	17-Dec-07
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Test America Drilling Corp.	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	8"	SCREENED INTERVAL	15 to 30 fbg
LOGGED BY	W. Kirchanski	DEPTH TO WATER (First Encountered)	20.0 ft (12-Dec-07)
REVIEWED BY	J. Gaarder	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)
					ASPHALT		**ASPHALT**	0.4
							SILT (ML); olive brown (2.5Y 4/4); dry; 5% clay, 85% silt, 5% fine to coarse sand, 5% fine gravel. @ 1' - 5% clay, 85% silt, 10% fine sand.	
1.0	7 8 8	P-1-5'		5			@ 5' - olive brown (2.5Y 4/3); firm; low plasticity.	
0.8	7 8 15	P-1-10'		10			@ 10' - hard; 10% clay, 85% silt, 5% fine sand; medium plasticity.	
10.0	15 17 28	P-1-15'		15	ML		@ 15' - hard.	
258	13 17 28	P-1-20'		20			@ 18.5' - dark gray (2.5Y 4/1); 15% clay, 80% silt, 5% fine sand. ∇ @ 20' - hard; wet.	
	16 19 21	P-1-25'		25			@ 23.5' - olive brown (2.5Y 4/4); hard; wet; 10% clay, 85% silt, 5% fine sand.	
	15 20 24	P-1-30'		30			@ 30' - hard; wet.	30.0
				35				

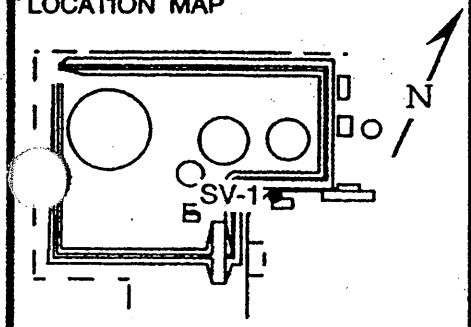
WELL DIAGRAM



Bottom of Boring @ 30 ft

WELL LOG (PID) I:\SONOMA.SHELL\SAN JOSE 2165 O'TOOLE AVE\GINT\241181.GPJ DEFAULT.GDT 6/24/08

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

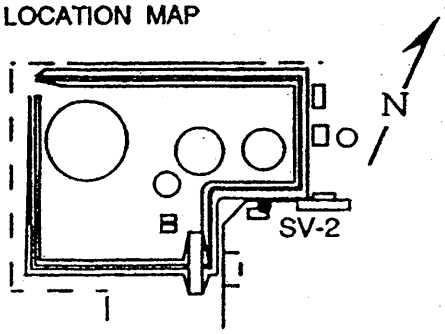
WELL NO. SV-1
PAGE 1 OF 1

PROJECT NO. 305-010.5A
LOGGED BY: E.W.
DRILLER: VIRONEX
DRILLING METHOD: CONT. CORE
SAMPLING METHOD: GRAB
CASING TYPE: STAINLESS STEEL
SLOT SIZE: 0.010"
WELL PACK: 2 x 12 SAND

CLIENT: SHELL
DATE DRILLED: 10-24-95
LOCATION: 2165 O'Toole Ave.
HOLE DIAMETER: 2"
HOLE DEPTH: 16'
WELL DIAMETER: 1.67"
WELL DEPTH: 13.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT				1				FILL: gravel to 3/4" with silt, clay and sand.
				2			CL	CLAY: dark brown; low plasticity; faint product odor.
				3				
				4				
				5				
				6				
BENTONITE				7				@7-13': as above; moderate product odor.
				8				
SAND				9				
				10				
				11				
				12				
				13				
				14				
SAND				15				
				16				BOTTOM OF BORING AT 16'
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

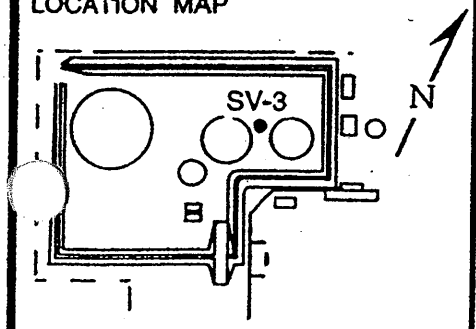
WELL NO. SV-2
PAGE 1 OF 1

PROJECT NO. 305-010.5A
LOGGED BY: E.W.
DRILLER: VIRONEX
DRILLING METHOD: CONT. CORE
SAMPLING METHOD: GRAB
CASING TYPE: STAINLESS STEEL
SLOT SIZE: 0.010"
WELL PACK: 2 x 12 SAND

CLIENT: SHELL
DATE DRILLED: 10-24-95
LOCATION: 2165 O'Toole Ave.
HOLE DIAMETER: 2"
HOLE DEPTH: 13.5'
WELL DIAMETER: 1.67"
WELL DEPTH: 13.5'
CASING STICKUP: NA

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT					1				FILL: gravel to 3/4" with silt, clay and sand.
					2			CL	CLAY
					3				
					4				
					5				
					6				
BENTONITE					7				
					8				@8-12': moderate product odor.
SAND					9				
					10				
					11				
					12				
					13				
					14				BOTTOM OF BORING AT 13.5'
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

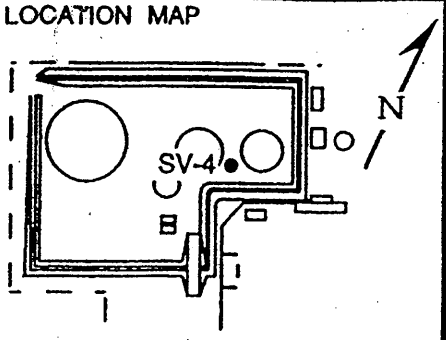
WELL NO. SV-3
PAGE 1 OF 1

PROJECT NO. 305-010.5A
LOGGED BY: E.W.
DRILLER: VIRONEX
DRILLING METHOD: CONT. CORE
SAMPLING METHOD: GRAB
CASING TYPE: STAINLESS STEEL
SLOT SIZE: 0.010"
WELL PACK: 2 x 12 SAND

CLIENT: SHELL
DATE DRILLED: 10-23-95
LOCATION: 2165 O'Toole Ave.
HOLE DIAMETER: 3"
HOLE DEPTH: 13.5'
WELL DIAMETER: 1.67"
WELL DEPTH: 13.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT				1					FILL: silty gravel to 3/4"
				2				ML	SILT: dark brown; low plasticity; no product odor.
				3					
				4					
				5				CL	CLAY: dark brown; low plasticity; faint product odor.
BENTONITE				6					
				7					
				8					
				9					
SAND				10					
				11					
				12					
				13					
				14					BOTTOM OF BORING AT 13.5'
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

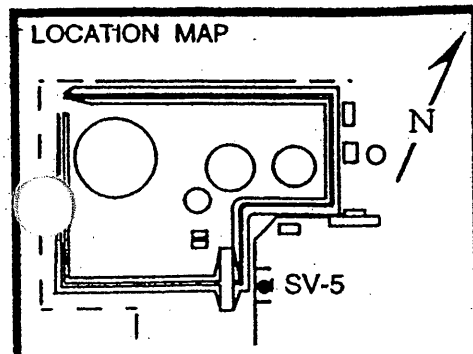
WELL NO. SV-4
PAGE 1 OF 1

PROJECT NO. 305-010.5A
LOGGED BY: E.W.
DRILLER: VIRONEX
DRILLING METHOD: CONT. CORE
SAMPLING METHOD: GRAB
CASING TYPE: STAINLESS STEEL
SLOT SIZE: 0.010"
WELL PACK: 2 x 12 SAND

CLIENT: SHELL
DATE DRILLED: 10-23-95
LOCATION: 2165 O'Toole Ave.
HOLE DIAMETER: 3"
HOLE DEPTH: 13.5'
WELL DIAMETER: 1.67"
WELL DEPTH: 13.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT									ASPHALT
				1					
				2				ML	SILT: dark brown; low plasticity; faint product odor.
				3					
				4					
				5				CL	CLAY: dark brown; low plasticity; faint product odor.
				6					
BENTONITE				7					
				8					
				9					
SAND				10					
				11					
				12					
				13					
				14					BOTTOM OF BORING AT 13.5'
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

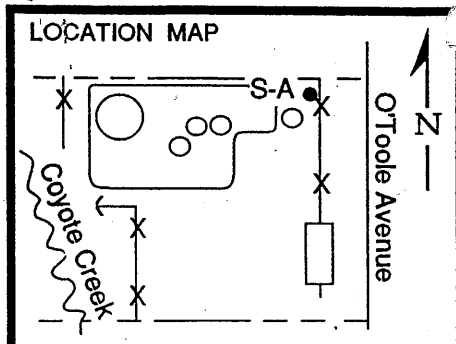
WELL NO. SV-5
PAGE 1 OF 1

PROJECT NO. 305-010.5A
LOGGED BY: E.W.
DRILLER: VIRONEX
DRILLING METHOD: CONT. CORE
SAMPLING METHOD: GRAB
CASING TYPE: STAINLESS STEEL
SLOT SIZE: 0.010"
WELL PACK: 2 x 12 SAND

CLIENT: SHELL
DATE DRILLED: 10-24-95
LOCATION: 2165 O'Toole Ave.
HOLE DIAMETER: 2"
HOLE DEPTH: 15.5'
WELL DIAMETER: 1.67"
WELL DEPTH: 15.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT								ASPHALT
				1				
				2			CL	CLAY: dark brown; low plasticity; no product odor.
				3				
				4				
				5				
				6				
BENTONITE				7				
				8				
				9				
SAND				10				
				11				
				12				
				13				Unknown due to cave in of 3 feet of sidewall.
				14				
				15				
				16				BOTTOM OF BORING AT 15.5'
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. S-A
PAGE 1 OF 2

PROJECT NO. 305-10.03
LOGGED BY: DA
DRILLER: GREGG DRILLING
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: SHELL
DATE DRILLED: 9-22-93
LOCATION: 2165 O'Toole Avenue
HOLE DIAMETER: 10"
HOLE DEPTH: 25.5'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout						COARSE GRAVEL COVER
	Dry	0		1	ML	SILT: dark brown; low plasticity; no product odor.
				2		
				3		
				4		
	Dp	0	24	5		@4.5': dark brown; 10-15% very fine sand; low plasticity; very stiff; no product odor.
				6		
				7		
				8		
				9		
	Mst	0	32	10	ML	CLAYEY SILT: very dark grayish brown; 30-35% clay; weak bedding; minor rootholes; moderate plasticity; very stiff; no product odor.
				11		
				12	CL	SANDY CLAY: dark yellowish brown; 20-30% very fine to fine sand; stiff; moderate plasticity; weak product odor.
				13		
				14		
	Mst	0	30	15		
				16		
				17		
				18		
	Wet	0	32	19		
				20		@20': 15-20% silt; very stiff; no product odor.
				21		
				22		

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

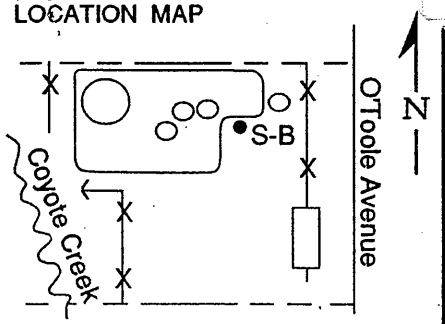
BORING NO. S-A
PAGE 2 OF 2

PROJECT NO. 305-10.03
LOGGED BY:
DRILLER:
DRILLING METHOD:
SAMPLING METHOD:
CASING TYPE:
SLOT SIZE:
GRAVEL PACK:

CLIENT: SHELL
DATE DRILLED:
LOCATION:
HOLE DIAMETER:
HOLE DEPTH:
WELL DIAMETER:
WELL DEPTH:
CASING STICKUP:

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout					23				CL	CLAY: dark grayish brown; trace coarse sand; grayish blue staining along rootholes; very stiff; no product odor.
					24					
		Sat	0	27	25					
					26					BOTTOM OF BORING AT 25.5'
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. S-B
PAGE 1 OF 2

PROJECT NO. 305-10.03
LOGGED BY: DA
DRILLER: GREGG DRILLING
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: SHELL
DATE DRILLED: 9-21-93
LOCATION: 2165 O'Toole Avenue
HOLE DIAMETER: 6"
HOLE DEPTH: 26'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout									GC	CLAYEY GRAVEL: (tank backfill material); medium gravel; faint product odor.
		Dp	10	14	1, 2, 3, 4, 5					
					6				CL	CLAY: olive brown; 10-15% silt; 10% very fine sand; grayish blue roothole staining; stiff; moderate plasticity; moderate product odor.
					7, 8, 9					
		Dp	20	21	10, 11					@10': dark olive brown; 10% silt; 10% very fine sand; high plasticity; very stiff; faint product odor.
					12, 13, 14					
		Dp	7	29	15, 16					@15': very dark grayish brown; high plasticity;20-25% silt; trace fine sand; no observable staining; very stiff; no to faint product odor.
	▽▼				17, 18, 19					
		Mst	0	29	20, 21					@20': olive brown; gray staining along rootholes; trace sand; high plasticity; very stiff; no product odor.
					22					

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

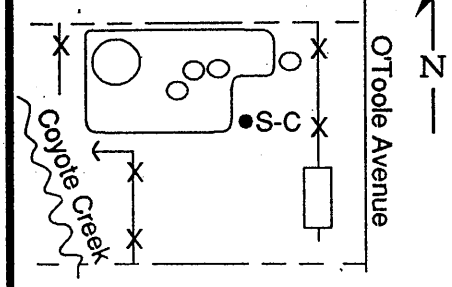
BORING NO. S-B
PAGE 2 OF 2

PROJECT NO. 305-10.03
LOGGED BY:
DRILLER:
DRILLING METHOD:
SAMPLING METHOD:
CASING TYPE:
SLOT SIZE:
GRAVEL PACK:

CLIENT: SHELL
DATE DRILLED:
LOCATION:
HOLE DIAMETER:
HOLE DEPTH:
WELL DIAMETER:
WELL DEPTH:
CASING STICKUP:

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
					23				CL	CLAY: high plasticity; trace fine and coarse sand; very stiff; no product odor.
					24					
		Sat	0	28	25					
					26					BOTTOM OF BORING AT 26'
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. S-C
PAGE 1 OF 2

PROJECT NO. 305-10.03
LOGGED BY: DA
DRILLER: GREGG DRILLING
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: SHELL
DATE DRILLED: 9-21-93
LOCATION: 2165 O'Toole Avenue
HOLE DIAMETER: 6"
HOLE DEPTH: 25'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout		Dp			1			CL	GRAVEL CLAY: (tank backfill material); dark olive brown; high plasticity; 10-15% silt; lenses of medium grained sand; moderate to no product odor.
					2				
					3				
					4				
		Dp	2.0	11	5				@5': dark brown; 10% very fine sand; trace medium gravel; high plasticity; stiff; weak bedding; no product odor.
					6				
					7				
					8				
					9				
		Dp	107	17	10				
		Mst			11			SP	SAND: (tank backfill material); dark gray; medium grained angular to subangular sand; trace gravel; medium dense; faint product odor.
	▼				12				
		Mst-Wet	75		13			CL	CLAY: very dark gray; high plasticity; 10-15% silt; stiff; weak product odor.
					14				
		Dp	22	39	15				
					16				
	▽				17				
					18				
					19				
		Mst	8	32	20				@20': dark yellowish brown; high plasticity; 10-20% silt; trace very fine sand; gray staining along rootholes; very stiff; no product odor.
					21				
					22				

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

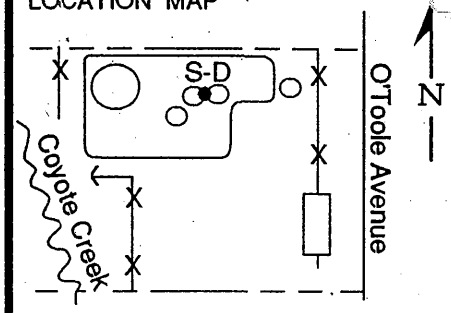
BORING NO. S-C
PAGE 2 OF 2

PROJECT NO. 305-10.03
LOGGED BY:
DRILLER:
DRILLING METHOD:
SAMPLING METHOD:
CASING TYPE:
SLOT SIZE:
GRAVEL PACK:

CLIENT: SHELL
DATE DRILLED:
LOCATION:
HOLE DIAMETER:
HOLE DEPTH:
WELL DIAMETER:
WELL DEPTH:
CASING STICKUP:

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
					23				CL	CLAY: continued; high plasticity; very stiff; no product odor.
					24					
		Mst		26	25					
					26					BOTTOM OF BORING AT 25'
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

BORING NO. S-D
PAGE 1 OF 2

PROJECT NO. 305-10.03
LOGGED BY: DA
DRILLER: GREGG DRILLING
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: NA
SLOT SIZE: NA
GRAVEL PACK: NA

CLIENT: SHELL
DATE DRILLED: 9-21-93
LOCATION: 2165 O'Toole Avenue
HOLE DIAMETER: 6"
HOLE DEPTH: 26'
WELL DIAMETER: NA
WELL DEPTH: NA
CASING STICKUP: NA

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Grout					1			CL	GRAVEL SILTY CLAY: very dark grayish brown; medium plasticity; no product odor.
					2				
					3				
					4				
		Dp	6	16	5				@4.5': very dark gray; low plasticity; 10-20% silt; faint to moderate product odor.
					6				@6': dark olive gray; low plasticity; stiff; faint to moderate product odor.
					7				
					8				
					9				
		Dp	25	18	10				@9.5': dark olive gray; 5-10% silt; trace fine sand; medium to high plasticity; very stiff; faint to moderate product odor.
					11				
					12				
					13				
					14				
		Dp	88	33	15				@14.5': dark olive gray; 10-15% silt; high plasticity; dark gray roothole staining; very stiff; moderate product odor.
					16				
	▽				17				
	▼				18				
					19				
		Mst-Wet	183	32	20				@20': very dark gray; very stiff; trace fine sand; trace gravel; moderate to strong product odor.
					21				
					22				

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

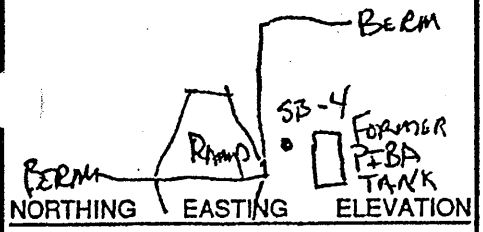
BORING NO. S-D
PAGE 2 OF 2

PROJECT NO. 305-10.03
LOGGED BY:
DRILLER:
DRILLING METHOD:
SAMPLING METHOD:
CASING TYPE:
SLOT SIZE:
GRAVEL PACK:

CLIENT: SHELL
DATE DRILLED:
LOCATION:
HOLE DIAMETER:
HOLE DEPTH:
WELL DIAMETER:
WELL DEPTH:
CASING STICKUP:

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
									CL	CLAY: very dark gray; 10-15% silt; dark yellowish brown streaking; stiff; no to faint product odor.
					23					
					24					
		Sat	15	38	25					
					26					BOTTOM OF BORING AT 26'
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

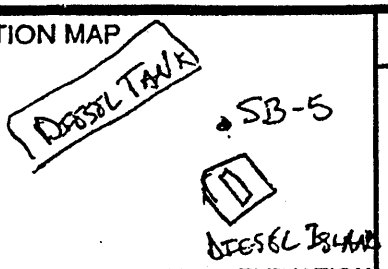
WELL/BORING NO. N/A
PAGE | OF |

PROJECT NO. 315-010.1A
LOGGED BY: ERIC WENGFIELD
DRILLER: NFRONEX
DRILLING METHOD: GEOPROBE
SAMPLING METHOD: DIRECT PUSH
CASING TYPE: N/A
SLOT SIZE: N/A
GRAVEL PACK: N/A

CLIENT: SHELL
DATE DRILLED: 4/29/96
LOCATION: 2165 O'TOOLE, SAN JOSE
HOLE DIAMETER: 2 INCH
HOLE DEPTH: 11 FEET
WELL DIAMETER: N/A
WELL DEPTH: N/A
CASING STICKUP: N/A

WELL COMPLETION			MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
						1					
						2					
						3					
						4					
						5					
						6					
						7					
						8					
						9				SM	SILTY SAND - 15% SILT, FINE TO MEDIUM GRAINED SAND, NO ODOR SATURATED
						10					
						11					

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. N/A
PAGE 1 OF 1

PROJECT NO. 315-010.1A
LOGGED BY: ERIC N.
DRILLER: VIRONEX
DRILLING METHOD: GEOPROBE
SAMPLING METHOD: DIRECT PUSH
CASING TYPE: N/A
SLOT SIZE: N/A
GRAVEL PACK: N/A

CLIENT: SHELL
DATE DRILLED: 4/29/96
LOCATION: 2165 O'TOOLE
HOLE DIAMETER: 2" INCH
HOLE DEPTH: 21 FEET
WELL DIAMETER: N/A
WELL DEPTH: N/A
CASING STICKUP: N/A

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				1					
				2					
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10				CH	SILTY-CLAY, HIGH PLASTICITY, SATURATED, NO ODOR
				11					
				12					
				13					
				14					
				15				CL	CLAY - 10% SILT MAX, MODERATE TO HIGH PLASTICITY, NO ODOR
				16					
				17					
				18					
				19					
				20				CL	CLAY - MODERATE TO HIGH PLASTICITY, SLIGHT GREY MOTTLING ALONG ROOTHOLE DARK BROWN (10YR/3/3)
				21					

PA 3/10/97

LOCATION MAP

SB-6

DIESEL TANK

NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. N/A
PAGE 1 OF 2

PROJECT NO. 315-010.1A
CLIENT: SHELL
LOGGED BY: ERIC WINGFIELD
DATE DRILLED: 4/29/96
DRILLER: VIRONEX
LOCATION: 2165 O'TOOLE
DRILLING METHOD: DIRECT PUSH
HOLE DIAMETER: 2 INCH
SAMPLING METHOD: GEOPROBE
HOLE DEPTH: 25 FEET
CASING TYPE: N/A
WELL DIAMETER: N/A
SLOT SIZE: N/A
WELL DEPTH: N/A
GRAVEL PACK: N/A
CASING STICKUP: N/A

WELL COMPLETION			MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
						1					
						2					
						3					
						4					
						5					
						6					
						7					
						8					
						9					CLAY - HIGH PLASTICITY, SATURATED
						10				CH	SOME SILT
						11					
						12					
						13					
						14					CLAY - SATURATED
						15				CL	
						16					
						17					
						18					
						19					CLAY - MODERATE TO HIGH PLASTICITY
						20				CL	
						21					
						22					

1937/87

LOCATION MAP

SEE PAGE 1

NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO.
PAGE 2 OF 2

PROJECT NO. 315-010.1A
LOGGED BY: ERIC W
DRILLER: VIRONEX
DRILLING METHOD: GEOPROBE
SAMPLING METHOD: DIRECT PUSH
CASING TYPE: N/A
SLOT SIZE: N/A
GRAVEL PACK: N/A

CLIENT: SHELL
DATE DRILLED: 4/29/96
LOCATION: 2165 O'TOOLE, SAN JOSE
HOLE DIAMETER: 2 INCH
HOLE DEPTH: 25 FEET
WELL DIAMETER: N/A
WELL DEPTH: N/A
CASING STICKUP: N/A

WELL COMPLETION			MOISTURE CONTENT	PID	PENETRATION (BLOWS/6")	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
						23					
						24					
						25					

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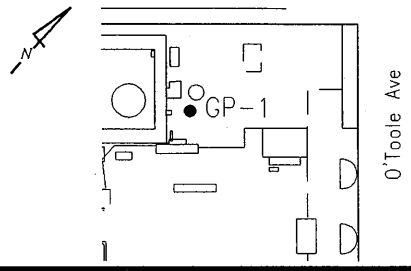
WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-1
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/22/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 37.36' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Direct Push	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 10-20'

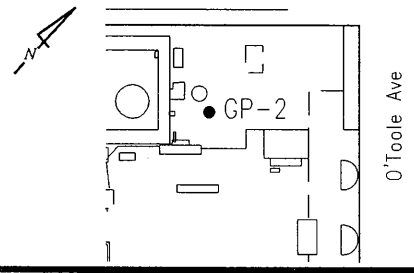
CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

TEMPORARY 3/4" CASING

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL / RECOVERY / RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
						GP	GRAVEL: Baserock
1						ML	SILT: mid brown; 90% fines; <10% fine sand; weak subangular blocky; low plasticity; homogenous; no product odor.
2							
3							
4	Dp-Mst						
5							
6							
7							@7': as above; mid brown with green mottling; soft; no product odor.
8							
9							
10		83					
11	VMst -Wt						
12							
13							@13': as above; trace fine rootlets; soft; strong product odor.
14	VMst	1570					
15							@14.5': 1" layer of angular and rounded gravel to 3/4" diameter.
16						CL	CLAY: mid brown with gray-green mottling; 90% clay; <10% fine sand and silt; abundant fine secondary porosity lined with gray clay; often observed with free liquid; soft grading to medium dense; moderate to strong product odor.
17	Mst	>2500					
18							
19		>2500					@18': as above; becomes stiffer with depth to hard; moderate to strong product odor.
20							BOTTOM OF BORING AT 20'
21							
22							

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-2
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/22/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 37.00' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Direct Push	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 10-20'

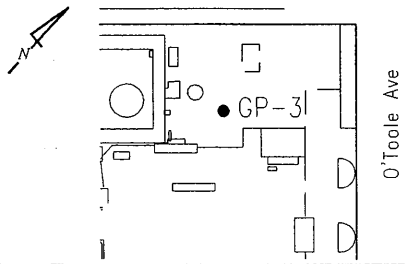
CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

TEMPORARY 3/4" CASING

MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
			1					GP ML	GRAVEL: Baserock SILT: mid brown; 90% fines; <10% fine sand and clay; weak subangular blocky; low plasticity; homogenous; no product odor.
			2						
Dp			3						
			4						
			5						
			6						
VMst	0		7						@7': as above; mid brown and gray mottled; medium subangular blocky; minor secondary porosity; wetness along ped surfaces; low to medium plasticty; weak product odor.
	9		8						
			9						
▽ VMst	47		10						@10': as above; mid brown; minor secondary porosity lined with gray clay; very soft; expansive core due to moisture; moderate sub angular blocky; moderate to strong product odor.
-Wt									
VMst			11						
			12						
			13						
Mst									
	942		14						
VMst			15						
-Wt									
VMst			16						@16.5': as above; wetness along ped surfaces; soft; weak sub angular blocky; strong product odor.
-Wt									
Mst	1591		17					CL	CLAY: mid to dark brown with minor gray clay along fractures; 90% clay; <10% fine silt and sand; moderate sub angular blocky; stiff; medium to high plasticity; weak to moderate product odor.
			18						
Dp	1082		19						
			20						Refusal @20'
			21						BOTTOM OF BORING AT 20'
			22						

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-3
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/22/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 36.80' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Direct Push	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth: 22' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 10-22'

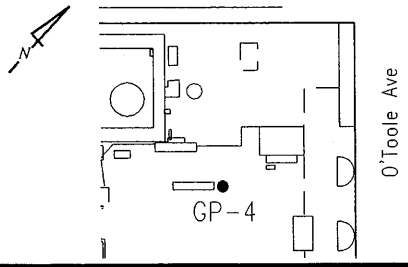
CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

TEMPORARY 3/4" CASING

MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL TYPE	DESCRIPTION
							GP	GRAVEL: Baserock
			1				ML	SILT: mid brown; 90% fines; <10% fine sand; weak subangular blocky; low plasticity; homogenous; no product odor.
Dry			2					
			3					
			4					
			5					
Dp			6					
			7					
			8					
			9					
Dp- Mst	5		10					@10': as above; mottled mid brown and gray; minor secondary porosity lined with light gray clay; moderate sub angular blocky; no product odor.
			11					
			12					
			13					
			14					@14.5': as above; minor 1" layer of 3/4" rounded and angular gravel; moderate to strong product odor.
Mst								
	1014		15					
▽								
	1077		16					@16': as above; very soft; strong product odor. (free water observed on core and along ped surfaces)
VMst								
			17					
			18					@18.5'-19': as above; very soft; 1" layer of rounded gravels to 3/4" diameter; weak to moderate product odor.
VMst								
	807		19					
							CL	CLAY: mid to dark brown with minor gray clay along fractures; 90% clay; <10% fine silt and sand; moderate sub angular blocky; hard; high plasticity; no product odor.
Dp			20					
	99		21					
			22					BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-4
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/22/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 36.90' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Direct Push	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth: 22' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 10-22'

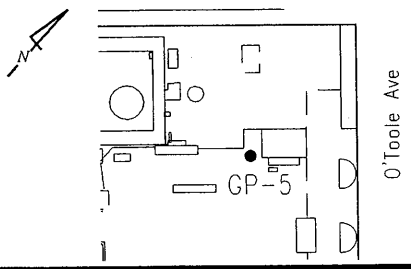
CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

TEMPORARY 3/4" CASING

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
								GP	GRAVEL: Baserock
1								ML	SILT: mid brown; 90% fines; <10% fine sand; moderate subangular blocky; low plasticity; blocky peds; homogenous; no product odor.
2									
	Dp								
3									
4									
5		3							
	Dp								
6									
7									
8	Dp- Mst	11							@8.5': moisture (wet) along angular blocky ped surfaces; no product odor.
9									
	Dp								
10		18							@9.5': as above; minor gray mottling; no moisture noticeable along strong angular block peds; weak product odor (sweet)
11									
12									Hand augered to 10' bgs.
13	▽ VMst	224							@13': as above; very soft due to increased moisture content; moderate to strong product odor.
14									@14': as above; minor fine secondary porosity.
	Mst								
15		355							@15.5': as above; soft; 1/2" thick gravel horizon at 16' bgs.
16	Dp- Mst							CL	CLAY: mid brown; 90% fines; <10% fine gravel; weak to moderate sub angular blocky; medium stiff; minor clay lined secondary porosity; no product odor.
17									
18	Dp								
19									@18': as above; mid to dark brown with depth; very stiff; no product odor.
20		15							
	Dry								
21									
22									BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-5
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/22/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 37.30' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Direct Push	TOTAL DEPTH: 21'

Grout Type/Qty:	Total Well Depth: 21' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 11-21'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

TEMPORARY 3/4" CASING

MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"
Dp-Mst		
Dp-Mst		
	3	
VMst -Wt	0	
VMst		
Dp-Mst		
VMst		
VMst	0	
Dp		

SAMPLE: INTERVAL, RECOVERY, RETAINED

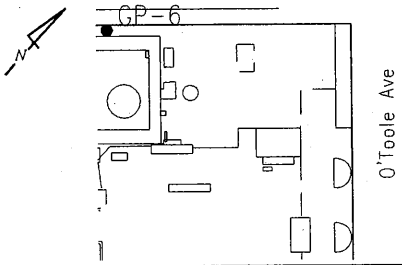
DEPTH (FEET): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

SOIL GRAPHIC

SOIL TYPE	DESCRIPTION
	Asphalt and Road base
ML	SILT: mid brown; 90% fines; <10% fine clay and fine sand; weak subangular blocky; low to no plasticity; soft; no product odor.
	@7.5': as above; firm; minor fine rootlets; no product odor.
	@11.5': as above; soft to firm; no product odor.
	@13': 1" layer of silty gravel; clay clasts up to 1/2" diameter; no product odor.
	@17.5': as above; soft; no product odor.
CL	CLAY: light brown; 90% fines; <10% fine sand; weak sub angular blocky; moderate to high plasticity; firm grading to hard with depth; no product odor.

BOTTOM OF BORING AT 21'

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-6
PAGE: 1 of 1
LOGGED BY: J. BERGSTROM

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/21/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 40.29' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Continuous core	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth: 22' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 7-22'

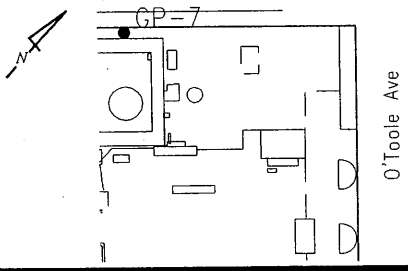
CONSTRUCTION: SEAL, CASING, SEAL

TEMPORARY 3/4" CASING

BACKFILLED WITH GROUT

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
	Dry								GRAVEL: Baserock
1								ML	SANDY SILT: light brown; 80% silt; 20% fine sand; low plasticity; stiff.
2									
3	Dry -Dp							ML	SILT: brown; 5% clay; 95% silt; low plasticity; stiff; no product odor.
4									
5									
6									
7									
8	Dp	0							
9									
10									
11	Dp	0							
12									
13	Dp								@13.0': CLAYEY SILT; brown; 15% clay; 85% silt; low plasticity; stiff; no product odor.
14									
15	Mst	0							@15.0': SILT; light brown; 5% clay; 95% silt; low plasticity; medium stiff; no product odor.
16									
17	Dp								@17.0': CLAYEY SILT; brown; 30% clay; 70% silt; low to medium plasticity; stiff; no product odor.
18									
19									
20	Dry -Dp	1							@19.5': as above; olive gray; very stiff.
21									
22		0							BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-7
PAGE: 1 of 1
LOGGED BY: J. BERGSTROM

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/21/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 40.29' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Continuous core	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 5-20'

CONSTRUCTION: SEAL, CASING, SEAL

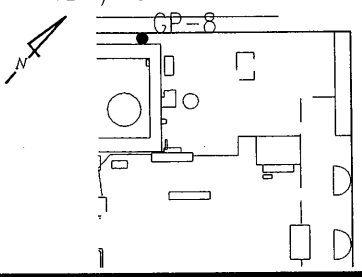
SAMPLE: INTERVAL, RECOVERY, RETAINED

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SOIL TYPE	DESCRIPTION
	Dry				GRAVEL: Baserock
1				ML	SANDY SILT: light brown; 80% silt; 20% fine sand; low plasticity; medium stiff; no product odor.
2					
3	Dp			ML	SILT; brown; 5% clay; 95% silt; low plasticity; no product odor.
4					
5					
6					
7					
8					@7.5': as above; 10% clay; 90% silt.
9					
10	Dp	0.4			Hand-augered to 8.5'.
11					
12					
13	Dp			ML	CLAYEY SILT; brown; 40% clay; 60% silt; low to moderate plasticity; stiff; no product odor.
14					
15	Mst	0		ML	@15': SILT; light brown; 5% clay; 95% silt; low plasticity; medium stiff; no product odor.
16					
17	Dp			ML	@16.5': CLAYEY SILT; brown; 40% clay; 60% silt; low to moderate plasticity; stiff; no product odor.
18	Mst				
19	Dp				
20					BOTTOM OF BORING AT 20'
21					
22					

CASING: TEMPORARY 3/4" CASING

BACKFILLED WITH GROUT

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-8
PAGE: 1 of 1
LOGGED BY: J. BERGSTROM

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/21/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 40.01' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Continuous core	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 5-20'

CONSTRUCTION: SEAL, CASING, SEAL

BACKFILLED WITH GROUT

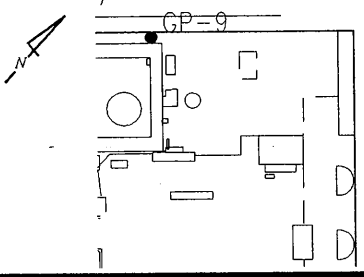
TEMPORARY 3/4" CASING

Depth (feet)	Moisture Content	PID (ppm)	Density Blows/6"	Soil Type	Description
	Dry				GRAVEL: Baserock
1				ML	SANDY SILT: light brown; 80% silt; 20% fine sand; low plasticity; stiff; no product odor.
2					
3				ML	SILT; brown; 5% clay; 95% silt; low plasticity; stiff; no product odor.
4	Dp				
5					
6					
7					
8					
9					
10					Hand-augered to 10'.
11	Dp			ML	CLAYEY SILT: brown; 15% clay; 85% silt; low plasticity; stiff; no product odor.
12					
13					
14	Dp	0		ML	@14.5': as above; 35% clay; 65% silt.
15					
16	Mst			ML	CLAYEY SILT; light brown; 10% clay; 90% silt; low plasticity; medium stiff; no product odor.
17				ML	@17': 35% clay; 65% silt.
18	Dp				
19					
20					BOTTOM OF BORING AT 20'
21					
22					

SAMPLE: INTERVAL, RECOVERY, RETAINED

SOIL GRAPHIC

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-9
PAGE: 1 of 1
LOGGED BY: J. BERGSTROM

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/21/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 39.62' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Continuous core	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 5-20'

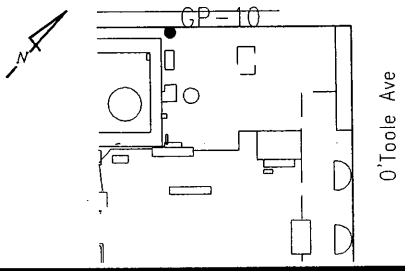
CONSTRUCTION: SEAL, CASING, SEAL

TEMPORARY 3/4" CASING

BACKFILLED WITH GROUT

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL TYPE	DESCRIPTION
	Dry							GRAVEL: Baserock
1							ML	SANDY SILT: light brown; 80% silt; 20% fine sand; low plasticity; medium stiff; no product odor.
2								
3								
4	Dp							SILT; brown; 5% clay; 95% silt; low plasticity; stiff; no product odor.
5								
6								
7								CLAYEY SILT: brown; 15% clay; 85% silt.
8								
9								
10								
11	Dp							@11.0': as above.
12								
13								
14	Dp							@14.0': as above; 35% clay; 65% silt.
15	Mst							SILT: light brown; 5% clay; 95% silt; low plasticity; medium stiff; no product odor.
16								CLAYEY SILT: brown; 35% clay; 65% silt; low to moderate plasticity; stiff; no product odor.
17								
18	Mst							@18': SILT; light brown; 5% clay; 95% silt; low plasticity; medium stiff; no product odor.
19	Dp							@18.5': CLAYEY SILT; brown; 35% clay; 65% silt; low to moderate plasticity; stiff; no product odor.
20		0						BOTTOM OF BORING AT 20'
21								
22								

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-10
PAGE: 1 of 1
LOGGED BY: J. BERGSTROM

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/21/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 39.60' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Continuous core	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 5-20'

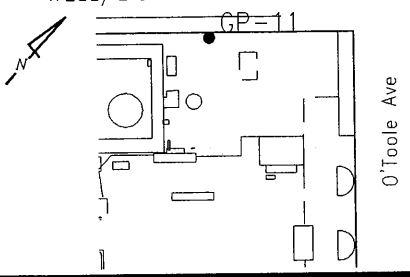
CONSTRUCTION: SEAL, CASING, SEAL

TEMPORARY 3/4" CASING

BACKFILLED WITH GROUT

▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
	Dry								GP	GRAVEL: Baserock
	Dry			1					ML	SANDY SILT: light brown; 80% silt; 20% fine sand; low plasticity; medium stiff; no product odor.
				2						
				3						
									ML	SILT; brown; 5% clay; 95% silt; low plasticity; stiff; no product odor.
	Dp			4						
				5						
				6						
				7						
	Dp			8					ML	@8.0': as above.
				9						
	Dp	7.8		10					ML	@10.0': as above; slight product odor.
				11						
				12					ML	CLAYEY SILT: olive gray; 35% clay; 65% silt; low to moderate plasticity; stiff; slight product odor.
	Dp			13						
				14						
				15						
▽	Mst	11.4		16					ML	SILT: light brown; 10% clay; 90% silt; low plasticity; medium stiff; strong product odor.
				17						
	Dp			18						
				19					ML	CLAYEY SILT: olive gray; 35% clay; 65% silt; low to moderate plasticity; stiff; slight product odor.
				20						BOTTOM OF BORING AT 20'
				21						
				22						

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-11
PAGE: 1 of 1
LOGGED BY: J. BERGSTROM

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 11/21/00
DRILLED BY: Gregg Drilling	TOC ELEV.: 39.66' msl
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Continuous core	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth: 20' (temp)
Grout Interval:	Casing Diameter: 3/4"
Seal Type/Qty:	Casing Type: PVC
Seal Interval:	Screen Interval: 5-20'

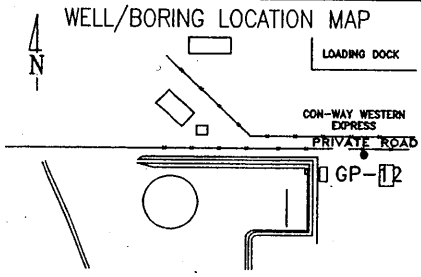
CONSTRUCTION: SEAL, CASING, SEAL

TEMPORARY 3/4" CASING

BACKFILLED WITH GROUT

DEPTH (FEET)	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	SOIL TYPE	DESCRIPTION
				GP	GRAVEL: Baserock
1	Dry			ML	SANDY SILT: light brown; 80% silt; 20% fine sand; low plasticity; medium stiff; no product odor.
2					
3					
4	Dp			ML	SILT; brown; 5% clay; 95% silt; low plasticity; stiff; no product odor.
5					
6					
7					
8	Dp			ML	@8.0': as above; 10% clay; 90% silt; slight product odor.
9					
10		6.1			
11					
12					
13	Dp			ML	CLAYEY SILT: olive gray; 35% clay; 65% silt; low to moderate plasticity; stiff; slight product odor.
14					
15					
16					
17	Dp			ML	@16.5': as above.
18					
19					
20	Dp	61.2		ML	@19.5': as above.
21					
22					

BOTTOM OF BORING AT 20'



Boring / Well Log

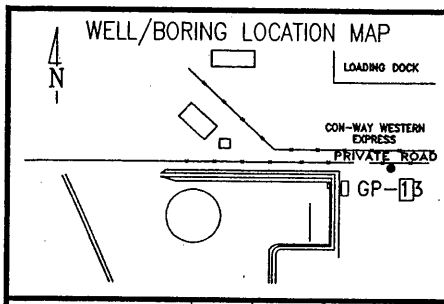
TOXICHEM Management Systems, Inc.

WELL/BORING: GP-12
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/19/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
				Dry									GRAVEL/ROAD BASE
				Dp			1					ML	SILT WITH SAND: brown; 80% silt; 20% fine sand; no plasticity; no product odor.
							2						
							3						
					2.8		4						
							5						
							6						
PORTLAND TYPE I/II CEMENT							7						@7': SILT; dark greenish gray; 10% clay; 85% silt; 5% fine sand; low plasticity; strong product odor.
				Dp	39.4								
					132		8						
				Dp			9						@9': as above; 10% clay; 90% fine sand.
							10						@10': as above; 5% clay; 95% silt; very low plasticity; strong product odor.
				Mst			11						
					86.8		12						
							13						
							14						@13.5': increasing clay with depth.
				Dp			15						@15': CLAYEY SILT; mottled brown and grayish brown; 30% clay; 70% silt; no plasticity; slight product odor.
							16						
				Dp			17						
							18					CL	SILTY CLAY: dark brown; 55% clay; 45% silt; medium to high plasticity; slight product odor.
							19						
							20						BOTTOM OF BORING AT 20'
							21						
							22						



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-13
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/19/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

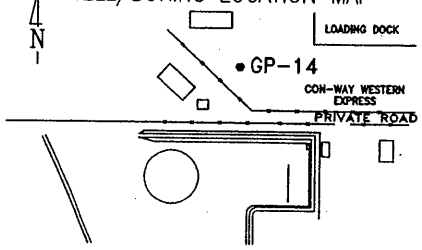
Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL | CASING | SEAL

PORTLAND TYPE I/II CEMENT

MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
Dry									ROAD BASE
Dp			1					ML	SILT: brown; 5% clay; 85% silt; 10% fine sand; no plasticity; no product odor.
			2						
			3						
			4						
			5						
			6						
			7						
Dp			8						@8': SILT; greenish gray; 5% clay; 90% silt; 5% fine sand; low plasticity; strong product odor.
			9						
	2.6		10						
			11						@11': as above; 10% clay; 90% silt.
	3.9		12						
Mst			13						
			14						@13.5': SILT WITH SAND; greenish gray; 5% clay; 75% silt; 20% fine sand; low plasticity; slight product odor.
Dp	5.6		15						@15': CLAYEY SILT; mottled brown and greenish gray; 30% clay; 70% silt; medium plasticity; slight product odor.
			16						
			17						
Dp			18					CL	SILTY CLAY: dark brown; 55% clay; 45% silt; high plasticity; slight product odor.
			19						
			20						BOTTOM OF BORING AT 20'
			21						
			22						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

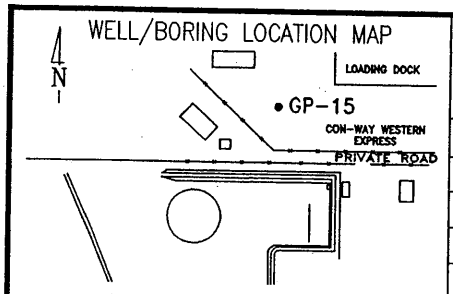
WELL/BORING: GP-14
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/18/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
				Dp			1						ASPHALT
							2					ML	SILT: brown; 5% clay; 90% silt; 5% fine sand; no plasticity; no product odor.
							3						
							4						
				Dp			5						
				Dp			6						
							7						@7': as above; slight increase in fine sand; minor black root material.
							8						
				Dp–Mst			9						
				Dp			10						@10': as above; dark brown; 5% clay; 85% silt; 10% fine sand; very low plasticity; no product odor.
							11						
							12						
							13						
							14						
				Dp			15						@15': SILT WITH CLAY; brown; 20% clay; 80% silt; low plasticity; no product odor.
			▽				16						
				Dp			17						@17': as above; mottled brown and orangish brown; 20% clay; 70% silt; 10% fine sand.
							18					CL	SILTY CLAY: dark brown; 55% clay; 45% silt; medium plasticity; no product odor.
							19						
							20						BOTTOM OF BORING AT 20'
							21						
							22						

PORTLAND TYPE I/II CEMENT



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-15
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

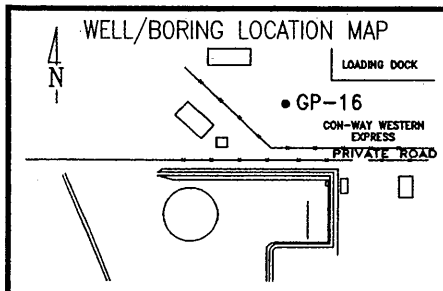
LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/18/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL | CASING | SEAL

MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
									ASPHALT
Dp			1					ML	SILT: brown; 5% clay; 90% silt; 5% fine sand; no plasticity; no product odor.
			2						
			3						
			4						
			5						
			6						
Dp			7						@7': as above; 90% silt; 10% fine sand.
			8						
			9						
Dp			10						@10': as above; dark brown; 10% clay; 80% silt; 10% fine sand; low plasticity; no product odor.
			11						
			12						
			13						
			14						
Mst			15						@15': as above; mottled light brown and orangish brown; 5% clay; 85% silt; 10% fine sand; very low plasticity.
			16						
			17						
			18					CL	SANDY SILTY CLAY: dark grayish brown; 40% clay; 30% silt; 30% coarse sand; medium plasticity; no product odor.
			19						
			20						BOTTOM OF BORING AT 20'
			21						
			22						

PORTLAND TYPE I/II CEMENT



Boring / Well Log

TOXICHEM Management Systems, Inc.

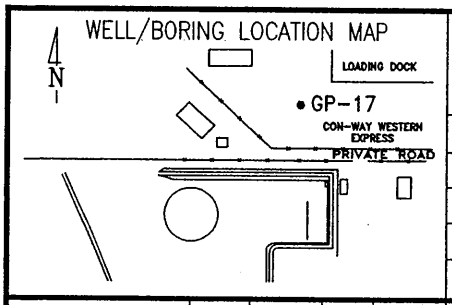
WELL/BORING: GP-16
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/18/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
													ASPHALT
				Dp			1					ML	SILT: light brown; 5% clay; 90% silt; 5% fine sand; no plasticity; no product odor.
							2						
							3						
							4						
							5						
							6						@6': as above.
				Dp			7						
							8						
							9						@9': as above; 90% silt; 10% fine sand.
				Dp			10						
							11						
							12						@12.5': as above; minor organic material.
				Dp-Mst			13						
							14						
				Dp			15						@15': CLAYEY SILT; mottled brown and dark orangish brown; 30% clay; 70% silt; low plasticity; no product odor.
							16						
							17						
							18						@18': as above; dark brown; 40% clay; 60% silt; medium plasticity; no product odor.
							19						
							20						BOTTOM OF BORING AT 20'
							21						
							22						

PORTLAND TYPE I/II CEMENT



Boring / Well Log

TOXICHEM Management Systems, Inc.

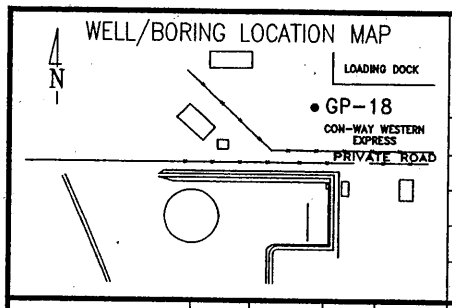
WELL/BORING: GP-17
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/18/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
				Dp			1						ASPHALT
							2					ML	SILT: brown; 5% clay; 85% silt; 10% fine sand; no plasticity; no product odor.
							3						
							4						
							5						
							6						
							7						
				Dp			8						@7.5': as above; 10% clay; 80% silt; 10% fine sand; no plasticity; no product odor.
							9						
				Dp			10						@10': as above; 10% clay; 90% silt; low plasticity.
							11						
							12						
				Dp-Mst			13						@13': as above; mottled light brown and orangish brown; 15% clay; 85% silt; low to medium plasticity; no product odor.
							14						
							15						
							16						
							17						
							18					CL	SILT CLAY: dark brown; 55% clay; 45% silt; medium to high plasticity; no product odor.
							19						
							20						BOTTOM OF BORING AT 20'
							21						
							22						

PORTLAND TYPE I/II CEMENT



Boring / Well Log

TOXICHEM Management Systems, Inc.

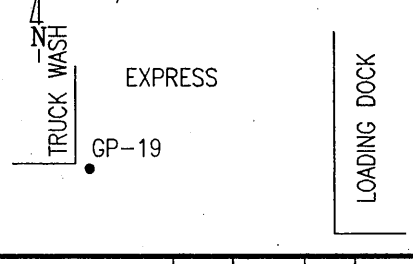
WELL/BORING: GP-18
PAGE: 1 of 1
LOGGED BY: J. BERSTROM

LOCATION: 2165 O'Toole Ave	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 9/18/01
DRILLED BY: Gregg Drilling	NORTHING:
DRILLING METHOD/DIA.: Hydraulic Push 2"	EASTING:
SAMPLING METHOD: Continuous/bailer	TOTAL DEPTH:

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
													ASPHALT
				Dp			1					ML	SILT: light brown; 5% clay; 90% silt; 5% fine sand; low plasticity; no product odor.
							2						
							3						
							4						
							5						
				Dp			6						
							7						
							8						@6.5': as above; 90% silt; 10% fine sand; no plasticity.
							9						
PORTLAND TYPE I/II CEMENT							10						
							11						
							12						
							13						@13': as above; 10% clay; 90% silt.
				Dp-Mst			14						
				Dp			15						@15': CLAYEY SILT; mottled dark brown and orangish brown; 25% clay; 70% silt; 5% fine sand; low plasticity; no product odor.
							16						
							17					CL	SILTY CLAY: dark grayish brown; 55% clay; 45% silt; medium to high plasticity; no product odor.
							18						
							19						
							20						BOTTOM OF BORING AT 20'
							21						
							22						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

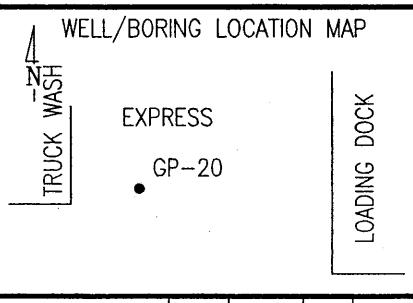
WELL/BORING: GP-19
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 1/26/01
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
													ASPHALT
				Dry			1					SP	SAND: brown; 100% fine to medium sand; no plasticity; high permeability.
							2						
							3					SM	SILTY SAND: brown; 30% silt; 70% fine sand; no plasticity; medium permeability.
							4						
							5					ML	SANDY SILT: brown; 70% silt; 30% fine sand; low to medium plasticity; low permeability.
							6						
							7						
BACKFILLED WITH GROUT							8						@8': as above; 85% silt; 15% fine sand.
							9						
							10						
							11						SILT: brown; 90% silt; 10% sand; medium plasticity; low permeability.
					0		12						
				Mst			13						
							14						@14': as above; 100% silt.
							15						
					24.5		16						@16': as above; green.
							17						
			▽	Wt	76.4		18						@18': as above; hard.
				Dry									
							19						
							20						
							21						
							22						BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-20
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

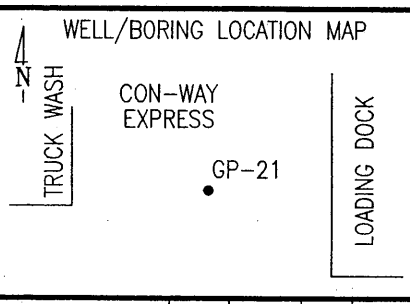
LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 1/26/01
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
													ASPHALT
				Dry			1					SP	SAND: brown; 100% fine to medium sand; no plasticity; high permeability.
							2						@2': as above; light brown; 100% medium sand.
							3						
							4					SM	SILTY SAND: brown; 30% silt; 70% fine sand; no plasticity; medium to low permeability.
					0		5						
							6						
							7						
							8					ML	SILT: brown green; 100% silt; soft; medium plasticity; low permeability.
							9						
							10						
							11						
				Mst	0		12						
							13						
							14						
							15						
					58.7		16						
				Wt			17						
			▽	Wt	36.8		18						@18': as above; hard.
				Dry			19						
							20						
							21						
							22						BOTTOM OF BORING AT 22'

BACKFILLED WITH GROUT

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

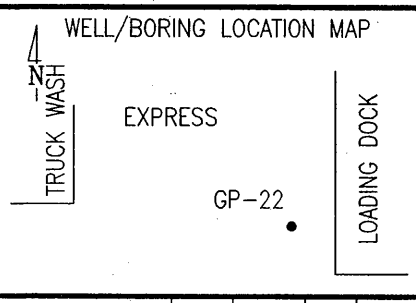
WELL/BORING: GP-21
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 1/26/01
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CONSTRUCTION: CASING	CONSTRUCTION: SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
BACKFILLED WITH GROUT							1					SP	ASPHALT SILT: brown; 100% silt; soft.
							2					ML	SANDY SILT: light brown; 70% silt; 30% fine sand; soft; low to medium plasticity; low permeability.
							3						
							4						
				Dry	0		5						
							6						
							7						
							8						
							9						
							10						
				Mst	0		11						
							12						
							13						
							14						
			▽	Wt			15						
							16						
							17						
							18						
							19						
				Dry			20						@20': SILT; 100% silt; medium plasticity; low permeability.
							21						
							22						BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

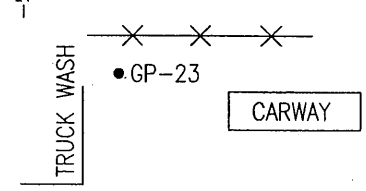
WELL/BORING: GP-22
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 1/26/01
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
BACKFILLED WITH GROUT							1					SP	ASPHALT SAND: light brown; 100% fine sand; no plasticity; low permeability.
							2						
							3						
							4						
				Dry	0		5						
							6					ML	SANDY SILT: brown; 70% silt; 30% fine sand; low to medium plasticity; low permeability.
							7						
							8						
							9						
							10						
							11						
					0		12						
				Mst			13						SILT: brown; 90% silt; 10% fine sand; medium plasticity; low permeability.
							14						
							15						
					0.1		16						@16': as above; 100% silt.
			▽	Wt			17						
					15.9		18						
				Dry			19						@19': as above; hard.
							20						
							21						
							22						BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

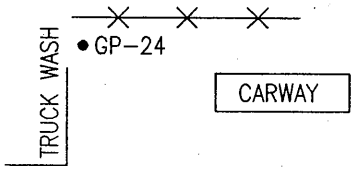
WELL/BORING: GP-23
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 2/02
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CONSTRUCTION: CASING	CONSTRUCTION: SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
BACKFILLED WITH GROUT													ASPHALT
							1					ML	SANDY SILT: brown; 80% silt; 20% fine sand; low plasticity.
							2						
							3						
							4						
				Dry	0		5	▼					@5': as above.
							6						
							7						
				Dry	0		8	▼					@8': SILT; 5% clay; 90% silt; 5% fine sand; low to medium plasticity.
							9						
							10						
							11						
				Mst	0		12	▼					@12': as above.
							13						
							14						
							15						
				Mst	3.7		16	▼					@16': as above.
							17						
							18						
							19						
				Dry	0		20	▼					@20': CLAYEY SILT; brown; 40% clay; 60% silt; low to medium plasticity.
							21						BOTTOM OF BORING AT 20'
							22						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-24
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

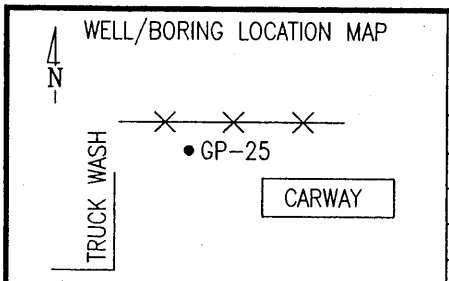
LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 2/27/02
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL, CASING, SEAL

▼	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	SAMPLE: RECOVERY	SAMPLE: RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
										ASPHALT
	Dry			1					ML	SILT WITH SAND: brown; 80% silt; 20% fine sand; low plasticity.
				2						
				3						
				4						
		0		5						
				6						
				7						
	Dry	1.0		8						@8': SILT; brown; 5% clay; 85% silt; 10% fine sand; low plasticity.
				9						
				10						
				11						
	Mst	0		12						
				13						
				14						
				15						
	Mst	27.3		16						@16': CLAYEY SILT; brown green mottled; 20% clay; 80% silt; medium plasticity.
				17						
	Dry	35.0		18						
				19						
				20						@20': as above; brown olive mottled; 40% clay; 60% silt.
				21						BOTTOM OF BORING AT 20'
				22						

BACKFILLED WITH GROUT



Boring / Well Log

TOXICHEM Management Systems, Inc.

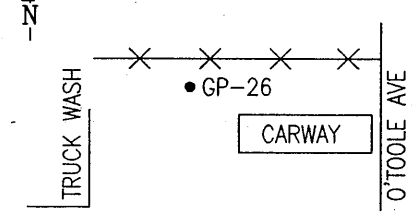
WELL/BORING: GP-25
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 2/27/02
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
BACKFILLED WITH GROUT													ASPHALT
							1					ML	SILT WITH SAND: light brown; 80% silt; 20% fine sand; low plasticity.
							2						
							3						
							4						
				Dry	0		5						@5': as above.
							6						
							7						
				Dry	0		8						@8': as above. @9': SILT; brown; 10% clay; 90% silt; trace fine sand; medium plasticity.
							9						
							10						
							11						
				Mst	5.0		12						
							13						
							14						
							15						
				Mst	37.5								@15.5': as above; brown olive mottled.
							16						
							17						
							18						
				Dry	25.0		19						
							20						@20': CLAYEY SILT; brown green mottled.
							21						BOTTOM OF BORING AT 20'
							22						

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-26
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

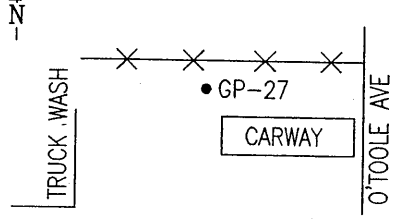
LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 2/27/02
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 20'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
													ASPHALT
							1					ML	SILT WITH SAND: brown; 80% silt; 20% fine sand; low plasticity.
							2						
							3						
							4						
				Dry	0		5						
							6						@6': as above; trace fine gravel.
							7						
				Dry	1.7		8						@8': SILT; light brown; 10% clay; 80% silt; 10% fine sand; low to medium plasticity.
							9						
							10						
							11						
				Mst	1.0		12						
							13						
							14						
							15						
				Mst	29.2		16						@16': as above; brown; olive mottled; 10% clay; 90% silt.
							17						@17': CLAYEY SILT; brown; 40% clay; 60% silt; medium plasticity.
							18						
							19						
							20						
							21						BOTTOM OF BORING AT 20'
							22						

BACKFILLED WITH GROUT

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

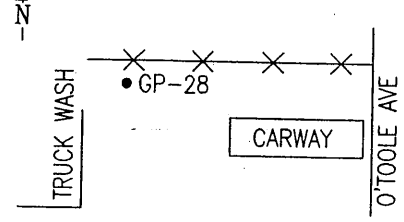
WELL/BORING: GP-27
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 2/02
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 22'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
BACKFILLED WITH GROUT				Dry									ASPHALT
							1					ML	SANDY SILT: light brown; 75% silt; 25% fine sand; low plasticity.
							2						
							3						
							4						
					0		5						
							6						
							7						
				Dry									
					17.8		8						
							9						
							10						
							11						
				Dry	29.7		12						
					41								@12': as above.
							13						@13': SILT; light brown; 10% clay; 85% silt; 5% fine sand; medium plasticity.
							14						
							15						
				Mst	2.7		16						
							17						
							18						@18': as above; dark brown.
				Dry	8.9		19						@19': CLAYEY SILT; 25% clay; 75% silt; medium plasticity.
							20						
							21						@21': as above; dark brown; 40% clay; 60% silt; medium to high plasticity.
							22						BOTTOM OF BORING AT 22'

WELL/BORING LOCATION MAP



Boring / Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: GP-28
PAGE: 1 of 1
LOGGED BY: M. GAFFNEY

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1A
CITY/STATE: San Jose, California	DATE DRILLED: 2/27/02
DRILLED BY: Gregg	NORTHING:
DRILLING METHOD/DIA.: Geoprobe	EASTING:
SAMPLING METHOD: Macro	TOTAL DEPTH: 16'

Grout Type/Qty:	Total Well Depth:
Grout Interval:	Casing Dia./Type:
Seal Type/Qty:	Sand Type/Qty:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	▼ ▽	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
BACKFILLED WITH GROUT				Dry									ASPHALT
							1					ML	SILT WITH SAND: light brown; 80% silt; 20% fine sand; low plasticity.
							2						
							3						
							4						
							5						
							6						
							7						
							8						@8': SILT; brown; 5% clay; 90% silt; 5% fine sand; low to medium plasticity.
							9						
							10						
							11						
							12						
							13						@14': as above.
							14						@15.5': CLAYEY SILT; brown olive mottled; 20% clay; 80% silt; medium plasticity.
							15						
							16						BOTTOM OF BORING AT 16'
							17						
							18						
							19						
							20						
							21						
							22						

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-29
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	24-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	25-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL(GP)**; dry; 100% fine gravel.	0.2	
					ML		**SILT with sand (ML)**; Very dark grayish brown (10YR 3/4); dry to moist; 75% silt, 20% fine to coarse grained sand, 5% fine gravel; no plasticity.		
				5			**SILT (ML)**; 90% silt, 10% fine grained sand.	8.0	
					SM		**Silty SAND (SM)**; Brown (10YR 4/3); moist; 20% silt, 80% fine to medium grained sand.	9.0	
0.0		GP-24 -9.5		10	SP		**Poorly graded SAND (SP)**; Light yellowish brown (2.5Y 6/3); dry to moist; 5% silt, 95% fine to medium grained sand.	12.0	
0.0					ML		**SILT (ML)**; Dark grayish brown (2.5Y 4/2); moist; 10% clay, 85% silt, 5% fine to medium grained sand; low to medium plasticity.		
0.0		GP-24 -14.5		15					
0.0							@ 16' - 15% clay, 80% silt, 5% fine to medium grained sand; medium plasticity.		
0.0		GP-24 -19		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181-1243AF1-1241181.GPJ DEFAULT.GDT 5/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-30
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	24-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	25-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL (GP)** ; dry; 100% fine gravel.	0.2	
							SILT (ML) ; Very dark grayish brown (10YR 3/2); dry to moist; 90% silt, 10% fine grained sand, no plasticity.		
				5			@ 5' - Dark grayish brown (2.5Y 4/2) ; moist; 10% clay, 85% silt, 5% fine grained sand; low plasticity.		
0.6		GP-30 -6							
0.6									
1.8		GP-30 -10		10	ML				
0.8									
1.8		GP-30 -15		15					
1.8							@ 17' - 15% clay, 85% silt.		
0.7		GP-30 -19.5		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181~\243AF1~\241181.GPJ DEFAULT.GDT 5/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-31
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	24-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	25-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL (GP)** ; dry; 100% fine gravel.	0.2	
							SILT (ML) ; Very dark grayish brown (10YR 3/2); dry to moist; 90% silt, 10% fine grained sand; low to medium plasticity.		
				5					
1.2							@ 8' - Dark grayish brown (2.5Y 4/2); moist; 10% clay, 85% silt, 5% fine grained sand; low plasticity.		
0.8		GP-31 -10		10	ML				
0.6									
289		GP-31 -14.5					@ 14' - 15% clay, 85% silt.		
				15					
41.9		GP-31 -17.5							
				20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181~1\243AF1~1\241181.GPJ DEFAULT.GDT 5/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-32
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	24-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	25-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	16 fbg
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL (GP)**; dry; 100% fine gravel.	0.2	
							SILT (ML); Very dark grayish brown (10YR 3/2); dry to moist; 90% silt, 10% fine grained sand; no plasticity.		
				5					
0.0		GP-32 -5.5					@ 5' - Dark grayish brown (2.5Y 4/2); moist; 15% clay, 85% silt; low plasticity.		
0.0									
0.0		GP-32 -10		10					
					ML				
0.0									
0.0		GP-32 -15		15			@ 15.5' - wet.		
				20					
0.0		GP-32 -20.5							
								23.0	Bottom of Boring @ 23 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181-\243AF1-\241181.GPJ DEFAULT.GDT 5/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-33
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	23-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	25-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	17 fbg ∇
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL (GP)**; dry; 100% fine gravel.	0.2	
							SILT (ML); Very dark grayish brown (10YR 3/2); dry to moist; 90% silt, 10% fine grained sand; no plasticity.		
				5					
6.3		GP-33 -5.5					@ 5' - Dark grayish brown (2.5Y 4/2); moist; 10% clay, 85% silt, 5% fine grained sand; low plasticity.		
3.3									
2.4		GP-33 -10		10	ML		@ 10' - 10% clay, 90% silt.		
2.8									
5.3		GP-33 -15		15			@ 15' - 15% clay, 85% silt; low to medium plasticity.		
3.7								∇	
4.0							@ 17' - wet. @ 17.5' - moist.		
3.7		GP-33 -18.5							
				20				20.0	

Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181-\243AF1-1\241181.GPJ DEFAULT.GDT 5/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-34
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	23-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	25-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL(GP)**; dry; 100% fine gravel.	0.2	
							SILT (ML); Very dark grayish brown (10YR 3/2); dry to moist; 90% silt, 10% fine grained sand; no plasticity.		
							@ 4' - 5% clay, 90% silt, 5% fine to medium grained sand.		
				5					
0.8		GP-34 -5.5					@ 5' - Dark grayish brown (2.5Y 4/2); moist; 10% clay, 85% silt, 5% fine grained sand; low plasticity.		
2.7									
1.0		GP-34 -10		10	ML		@ 10' - 10% clay, 90% silt.		
4.8									
3.1									
		GP-34 -15		15			@ 15' - 15% clay, 85% silt; low to medium plasticity.		
2.4									
3.4									
3.0		GP-34 -19.5		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181~1\243AF1~1\241181.GPJ DEFAULT.GDT 5/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-35
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	23-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	23-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL (GP)**; dry; 100% fine gravel.	0.2	
					ML		**SILT (ML)**; Very dark grayish brown (10YR 3/2); dry to moist; 90% silt, 10% fine grained sand; no plasticity.		
				5			@ 5' - 10% clay, 85% silt, 5% fine to medium grained sand; low plasticity.		
								8.0	Bottom of Boring @ 8 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181-\243AF1-\241181.GPJ DEFAULT.GDT 5/7/10

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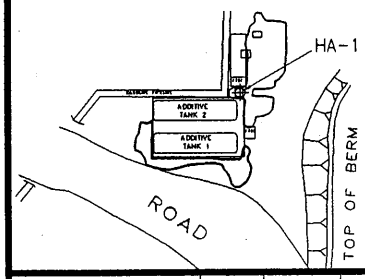
BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	GP-36
JOB/SITE NAME	Shell San Jose Terminal	DRILLING STARTED	23-Feb-10
LOCATION	2165 O'Toole Avenue, San Jose, California	DRILLING COMPLETED	23-Feb-10
PROJECT NUMBER	241181	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	NA ∇
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GP		**Poorly graded GRAVEL (GP)**; dry; 100% fine gravel.	0.2	
				5	ML		**SILT (ML)**; Dark brown (10YR 3/3); dry to moist; 90% silt, 10% fine grained sand; no plasticity. @ 5.5' - 10% clay, 85% silt, 5% fine to medium grained sand; low plasticity.	8.0	Bottom of Boring @ 8 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2411-\241181-1\243AF1-1\241181.GPJ DEFAULT.GDT 5/7/10

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

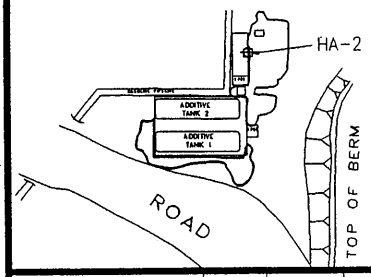
WELL/BORING: HA-1
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT: EQ-12.1B
CITY/STATE: San Jose, Ca.	DATE DRILLED: 9/28/99
DRILLED BY: Ross Tinline	NORTHING:
DRILLING METHOD/DIA.: Hand auger/2.5"	EASTING:
SAMPLING METHOD: Hand auger	TOTAL DEPTH: 17.5'

Grout Type/Qty: Portland/30 lbs.	Total Well Depth:
Grout Interval: 6-17.5'	Casing Diameter:
Seal Type/Qty:	Casing Type:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
						1						Note: Boring advancement started at 6' bgs within excavation.
						2						
						3						
						4						
						5						
						6					CL	CLAY: mid brown; 85% clay and silt; 15% fine sand; medium plasticity; weak subangular blocky; medium stiff; strong product odor.
BACKFILLED WITH GROUT			Mst			7						@8': mid brown to reddish brwon; slight increased sand content to 15-20%.
			Mst-VMst	0		8						
						9						@9': increased silt content reducing plasticity to weak to moderate plasticity; soft to medium stiff; strong product odor.
			Mst-Wt			10						
						11						
						12						@12': sewer odor.
			Mst	11		13						@13': as above; increased clay to 85-90%; decreased silt and sand to 10-15%; stiff; minor grey mottling; moderate product odor.
						14						
						15						
			VMst	8		16						
			Sat			17						BOTTOM OF BORING @ 17.5'
						18						
						19						
						20						
						21						
						22						

WELL/BORING LOCATION MAP



Boring/Well Log

TOXICHEM Management Systems, Inc.

WELL/BORING: HA-2
PAGE: 1 of 1
LOGGED BY: RWNT

LOCATION: 2165 O'Toole Avenue	CLIENT/PROJECT:EQ-12.1B
CITY/STATE: San Jose, Ca.	DATE DRILLED: 9/28/99
DRILLED BY: Ross Tinline	NORTHING:
DRILLING METHOD/DIA.: Hand auger/2.5"	EASTING:
SAMPLING METHOD: Hand auger	TOTAL DEPTH: 18'

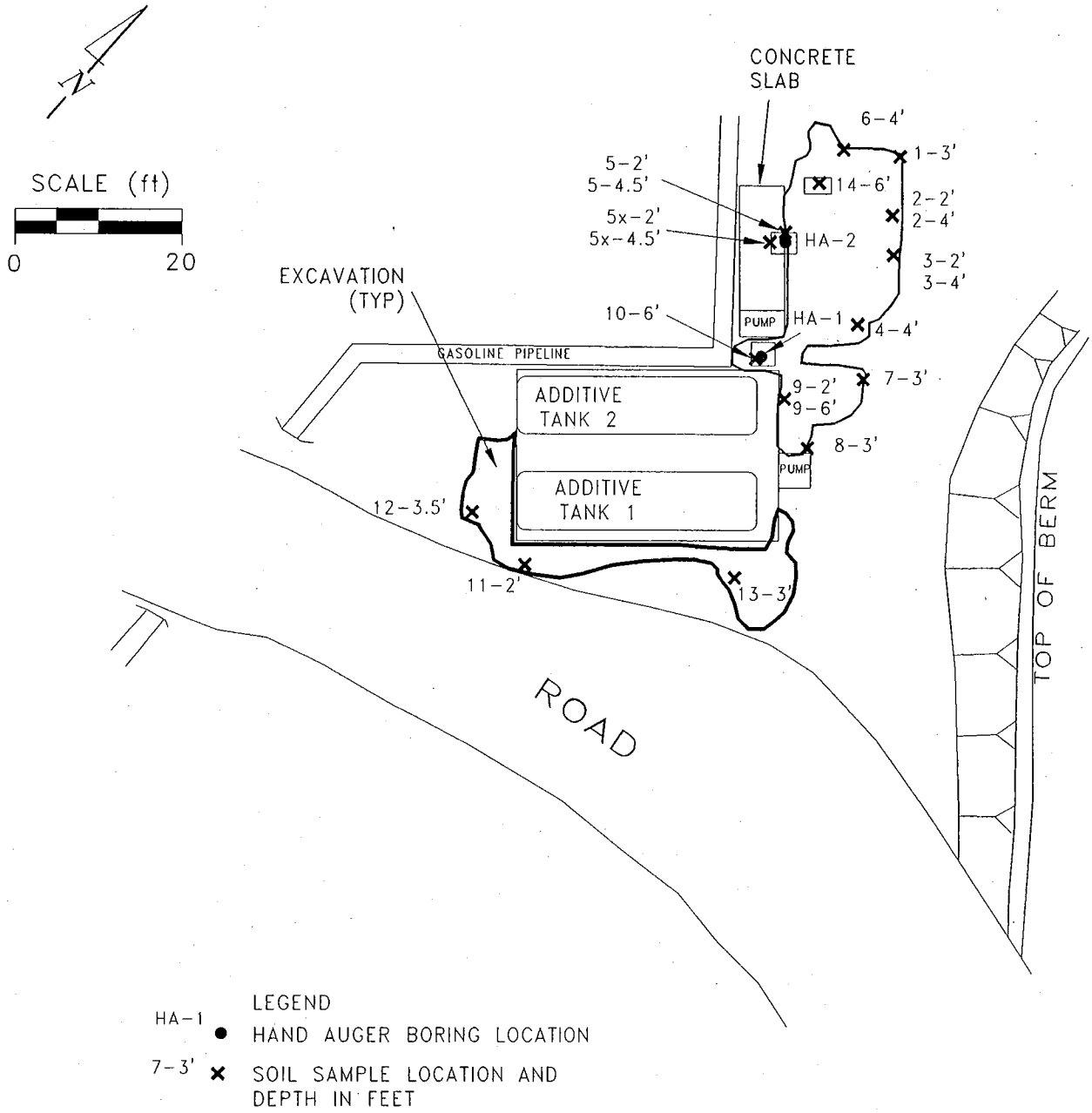
Grout Type/Qty: Portland/30 lbs.	Total Well Depth:
Grout Interval: 6-18'	Casing Diameter:
Seal Type/Qty:	Casing Type:
Seal Interval:	Screen Interval:

CONSTRUCTION: SEAL	CASING	SEAL	MOISTURE CONTENT	PID (ppm)	DENSITY BLOWS/6"	DEPTH (FEET)	SAMPLE: INTERVAL	RECOVERY	RETAINED	SOIL GRAPHIC	SOIL TYPE	DESCRIPTION
												Note: Boring advancement started at 6' bgs within excavation.
						1						
						2						
						3						
						4						
						5						
			Mst			6					CL	CLAY: mid brown to grey brown; 80% clay; 15% silt; 5% fine sand; low to medium plasticity; weak silty texture; weak subangular blocky; soft to medium stiff; strong product odor.
						7						
			Mst			8						
						9						
				0		10						
			Mst			11						@11': as above; strong product odor.
						12						
			Mst	0		13						@13': as above; increased clay to 90%; medium plasticity; medium stiff to stiff.
						14						@14.5': increase silt content; soft silty texture; medium stiff to soft; strong product odor.
			VMst			15						
				101		16						@16': increased clay to 90% medium stiff to stiff; mottled grey brown; subangular blocky; moderate product odor.
			Sat			17						@17': strong product odor.
						18						BOTTOM OF BORING @ 18'
						19						
						20						
						21						
						22						

BACKFILLED WITH GROUT

APPENDIX C

HISTORICAL SOIL DATA



Ref. EQ-12/Sitemap2.dwg
Basemap from field sketch

PREPARED BY		
TOXICHEM Management Systems, Inc. Environmental & Occupational Health Services	San Jose Terminal 2165 O'Toole Avenue San Jose, California	FIGURE: 17
	SAMPLE LOCATION MAP	PROJECT: EQ-12

Soil Analytical Results
Shell Oil Products US
Shell San Jose Terminal, San Jose, California

Sampling Location	Sample Depth (feet bgs)	Sample Date	Data Source	TPPH/ TPHg (ppb)	TEPH/T PHd (ppb)	TRPH/ Other (ppb)	TEPH (C24-C36) (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)	n-Butyl benzene (ppb)	sec-Butyl benzene (ppb)	Isopropyl beznene (ppb)	p-Isopropyl toluene (ppb)	Naphthalene (ppb)	n-Propyl benzene (ppb)	1,2,4-Trimethylb enzene (ppb)	1,3,5-Trimethylbe nzene (ppb)
1	3	9/9/1999	TMS, 2000	84.2	2,560	NA	21.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	2	9/9/1999	TMS, 2000	472	25,200	NA	NA	0.308	0.411	8.39	17.3	ND	1.36	0.971	0.799	0.689	5.1	1.75	4.23	1.51
	4	9/9/1999	TMS, 2000	3.18	20.7	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	2	9/9/1999	TMS, 2000	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	9/9/1999	TMS, 2000	4.31	5.53	NA	ND	ND	ND	ND	0.302	ND	ND	ND	ND	ND	ND	ND	0.755	0.133
4	4	9/9/1999	TMS, 2000	2.38	8.52	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.251	ND
5	2	9/9/1999	TMS, 2000	19,800	10,500	NA	4,880	ND	189	590	4,230	ND	203	56.8	101	77.5	263	293	2,310	775
	4.5	9/9/1999	TMS, 2000	3,710	3,560	NA	2,300	ND	ND	ND	1,870	ND	83.8	26.5	24.0	13.3	134	18.8	1,140	384
5x (dup of 5)	2	9/28/1999	TMS, 2000	9,160	9,230	NA	NA	ND	ND	337	1,890	ND	124	46.6	40.6	ND	386	188	1,850	539
	4.5	9/28/1999	TMS, 2000	5,100	5,500	NA	NA	ND	ND	60.5	303	ND	41.1	ND	ND	15.8	116	43	449	120
6	4	9/9/1999	TMS, 2000	58.5	4,330	NA	235	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	3	9/10/1999	TMS, 2000	ND	192	NA	450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	3	9/10/1999	TMS, 2000	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	2	9/10/1999	TMS, 2000	2,070	75.6	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	615	372
	6	9/10/1999	TMS, 2000	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	6	9/10/1999	TMS, 2000	368	914	NA	NA	ND	ND	30.9	198	ND	ND	ND	3.88	ND	ND	5.43	33.5	13.0
11	2	9/10/1999	TMS, 2000	ND	10.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	3.5	9/10/1999	TMS, 2000	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12
13	3	9/10/1999	TMS, 2000	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	6	9/10/1999	TMS, 2000	1.22	12.2	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-1	10	9/28/1999	TMS, 2000	515	178	NA	NA	ND	ND	ND	2,080	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-2	11	9/28/1999	TMS, 2000	5.78	1.90	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	17.5	9/28/1999	TMS, 2000	6.80	679	NA	13,800	ND	ND	ND	138	ND	0.386	0.234	0.159	ND	ND	0.396	0.110	ND
B-1	4	1/27/2000	TMS, 2000	<1	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
B-2	14	1/27/2000	TMS, 2000	<1	NA	NA	NA	0.006	0.017	0.027	<0.005	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
	21	1/27/2000	TMS, 2000	<1	NA	NA	NA	<0.005	0.022	0.006	0.038	<0.05	NA	NA	NA	NA	NA	NA	NA	NA
EX-1	Unknown	11/9/2001	TMS, 2001	1.3	14	NA	NA	<0.005	<0.005	0.0072	0.087	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	0.18	0.055
EX-2	Unknown	11/9/2001	TMS, 2001	<1.0	<1.0	NA	NA	<0.005	<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EX-3	Unknown	11/9/2001	TMS, 2001	<1.0	<1.0	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012
EX-4	Unknown	11/9/2001	TMS, 2001	24,000	13,000	NA	NA	<2.5	3.9	9.4	151	<2.5	380	60	75	29	9.1	460	3,500	1,900
EX-4B (dup of EX-4)	Unknown	11/9/2001	TMS, 2001	380	650	NA	NA	<0.05	0.12	0.16	2.58	<0.05	6.8	1.0	1.3	0.48	0.21	7.2	83	13
EX-5	Unknown	11/9/2001	TMS, 2001	43	22	NA	NA	<0.005	0.031	0.10	1.62	<0.005	<0.025	0.43	0.58	0.21	0.069	0.075	0.39	0.15
EX-6	Unknown	11/9/2001	TMS, 2001	<1.0	75	NA	NA	<0.005	<0.005	0.016	0.96	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EX-7	Unknown	11/9/2001	TMS, 2001	<1.0	38	NA	NA	<0.005	<0.005	<0.005	0.0324	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EX-8	Unknown	11/9/2001	TMS, 2001	<1.0	9.4	NA	NA	<0.005	<0.005	<0.005	0.0086	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	0.034	0.013
EX-9	Unknown	11/13/2001	TMS, 2001	<1.0	4.0	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027	0.011
EX-10	Unknown	11/13/2001	TMS, 2001	100	500	NA	NA	<0.05	0.052	<0.05	0.77	<0.05	1.3	0.20	0.12	0.091	0.058	0.48	12	3.7
SLOP 1	3	02/13/92	GTI, 1992	3,800	NA	NA	NA	58	230	44	370	NA	NA	NA	NA	NA	NA	NA	NA	NA
SLOP 3	0.5	02/13/92	GTI, 1992	930	NA	NA	NA	4.7	60	17	93	NA	NA	NA	NA	NA	NA	NA	NA	NA
SLOP 4	0.5	02/13/92	GTI, 1992	8.3	NA	NA	NA	0.71	0.61	0.055	0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV-1	9	10/22/1995	PEG, 1996	1.0	2.6	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV-4	10	10/24/1995	PEG, 1996	29	1.5	NA	NA	0.29	<0.025	0.90	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV-5	12	10/24/1995	PEG, 1996	<1.0	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	16	3/17-18/1988	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	15	3/18/1988	PEG, 1996	2	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	3/18/1988	PEG, 1996	81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	15	3/18/1988	PEG, 1996	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	10	3/18/1988	PEG, 1996	500	NA	NA	NA	0.2	0.3	ND	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10.5	3/18/1988	PEG, 1996	570	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	3/18/1988	PEG, 1996	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	3/18/1988	PEG, 1996	460	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	3/18/1988	PEG, 1996	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Soil Analytical Results
Shell Oil Products US
Shell San Jose Terminal, San Jose, California

Sampling Location	Sample Depth (feet bgs)	Sample Date	Data Source	TPPH/ TPHg (ppb)	TEPH/T PHd (ppb)	TRPH/ Other (ppb)	TEPH (C24-C36) (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)	n-Butyl benzene (ppb)	sec-Butyl benzene (ppb)	Isopropyl beznene (ppb)	p-Isopropyl toluene (ppb)	Naphthalene (ppb)	n-Propyl benzene (ppb)	1,2,4-Trimethylb enzene (ppb)	1,3,5-Trimethylbe nzene (ppb)
	30	3/18/1988	PEG, 1996	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	15	3/18/1988	PEG, 1996	2	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	3/18/1988	PEG, 1996	99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	3/18/1988	PEG, 1996	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	15	3/18/1988	PEG, 1996	160	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	3/18/1988	PEG, 1996	490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	3/18/1988	PEG, 1996	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	15	3/17-18/1988	PEG, 1996	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	10	3/18/1988	PEG, 1996	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	3/18/1988	PEG, 1996	2	NA	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	3/18/1988	PEG, 1996	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	3/18/1988	PEG, 1996	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	15	3/17-18/1988	PEG, 1996	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	5	11/21/1989	PEG, 1996	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	11/21/1989	PEG, 1996	170	79	NA	NA	2.5	6.0	2.5	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	11/21/1989	PEG, 1996	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	30.5	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	5	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	11/21/1989	PEG, 1996	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	11/21/1989	PEG, 1996	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	30	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	5	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	11/21/1989	PEG, 1996	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	25	11/21/1989	PEG, 1996	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29	11/21/1989	PEG, 1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	15	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-A	10	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-B	5	9/21/1993	PEG, 1996	6.5	NA	NA	NA	0.015	0.014	0.15	0.91	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10	9/21/1993	PEG, 1996	59	NA	NA	NA	1.2	0.25	1.2	0.070	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-C	10	9/21/1993	PEG, 1996	500	NA	NA	NA	ND	5.0	13	61	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	9/21/1993	PEG, 1996	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-D	5	9/21/1993	PEG, 1996	7.8	NA	NA	NA	0.018	0.009	0.10	0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10	9/21/1993	PEG, 1996	17	NA	NA	NA	0.13	0.038	0.25	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA
	15	9/21/1993	PEG, 1996	80	NA	NA	NA	1.6	0.24	3.3	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20	9/21/1993	PEG, 1996	73	NA	NA	NA	0.70	0.10	1.2	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-4	9-11	4/29/1996	PEG, 1996	ND	7.0	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
SB-5	9-11	4/29/1996	PEG, 1996	ND	4.0	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
SB-6	14-16	4/29/1996	PEG, 1996	ND	3.2	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

bgs Below ground surface
NA Not analyzed for specified parameter
ND Non detect, detection limit not documented in historic tables
PEG Pacific Environmental Group
TMS Toxichem Management Systems, Inc.
GTI Groundwater Technology, Inc.

Table based on The RETEC Group, Inc.'s (RETEC's) Historical Soil Table (from Appendix A of RETEC's August 2005 *Remediation Effectiveness Evaluation Program*)

Table 1
Soil Permeability Data

Shell San Jose Products Terminal
2165 O'Toole Avenue
San Jose, California

Boring Number	Sample Depth (feet)	Permeability (cm/s)
B-1	2	7.7×10^{-8}
B-2	2	3.5×10^{-6}
B-3	2	1.5×10^{-7}
B-4	2	3.7×10^{-8}
Backfill	NA	1.9×10^{-3}

TABLE 1

SOIL ANALYTICAL DATA
Shell Oil Products Company
2165 O'Toole Ave.
San Jose, CA
WIC# 104-6834-7587

Sample Depth (ft)	Date Sampled	TEPH (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	Comments
T-1-9							Diesel Tank excavation sidewall sample
9.0	20-Apr-98	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	
T-2-9							Diesel tank excavation sidewall sample
9.0	20-Apr-98	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	
D-1-3							Sample from beneath former diesel dispenser
3.0	20-Apr-98	2800	<0.25	<0.25	0.30	1.0	
D-2-9							Sample from beneath former diesel dispenser
9.0	20-Apr-98	3300	<0.50	<0.50	<0.50	<0.50	
P-1-3							
3.0	20-Apr-98	140	<0.0050	<0.0050	<0.0050	<0.0050	Pipe trench sample
P-1-4.5							
4.5	29-Apr-98	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	Pipe trench sample
P-2-3							
3.0	20-Apr-98	4.1	<0.0050	<0.0050	<0.0050	<0.0050	Pipe trench sample
DS-A-12							Sample from bottom of Diesel dispenser excavation
12.0	29-Apr-98	990	<0.050	0.095	0.62	4.0	

TABLE 1

SOIL ANALYTICAL DATA
Shell Oil Products Company
2165 O'Toole Ave.
San Jose, CA
WIC# 104-6834-7587

Sample Depth (ft)	Date Sampled	TEPH (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	Comments
DS-B-12							Diesel dispenser excavation
12.0	29-Apr-98	110	<0.0050	<0.0050	<0.0050	0.017	sidewall sample
DS-C-12							Diesel dispenser excavation
12.0	29-Apr-98	720	<0.025	<0.025	<0.025	<0.025	sidewall sample
DS-D-12							Diesel dispenser excavation
12.0	29-Apr-98	2300	<0.050	<0.050	<0.050	<0.050	sidewall sample
DS-E-12							Diesel dispenser excavation
12.0	29-Apr-98	2500	<0.25	0.31	1.2	9.1	sidewall sample
DS-F-8							Diesel dispenser excavation
8.0	06-May-98	2800	<0.25	<0.25	0.26	<0.25	sidewall sample
DS-G-8							Diesel dispenser excavation
8.0	06-May-98	49	<0.25	<0.25	<0.25	0.1	sidewall sample
DS-NE-9							Diesel dispenser excavation
9.0	12-May-98	1700	0.011	0.0088	<0.0050	<0.0050	sidewall sample
DS-SW-8							Diesel dispenser excavation

TABLE 1

SOIL ANALYTICAL DATA
Shell Oil Products Company
2165 O'Toole Ave.
San Jose, CA
WIC# 104-6834-7587

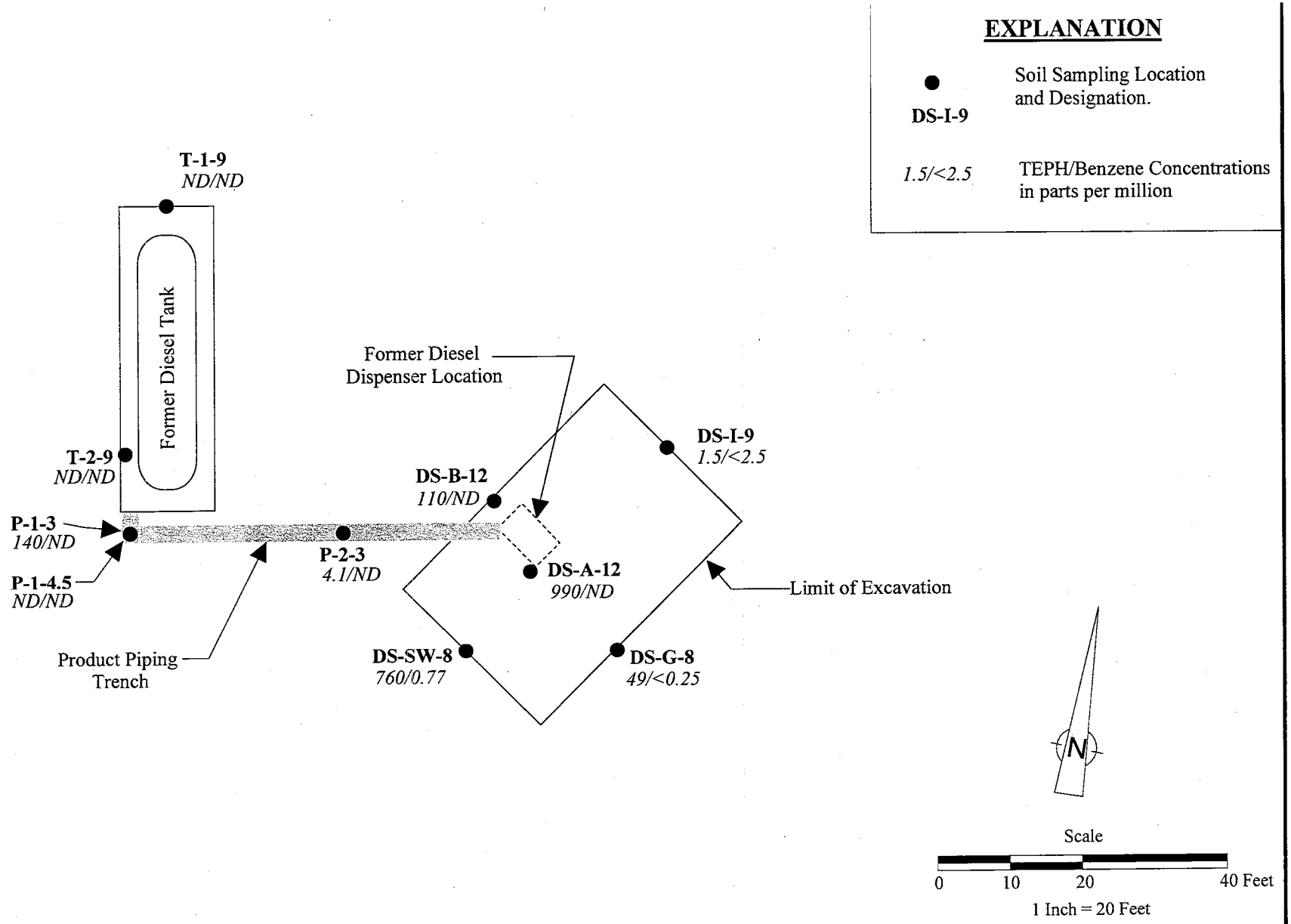
Sample Depth (ft)	Date Sampled	TEPH (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	Comments
8.0	12-May-98	760	0.77	2.4	0.46	2.5	sidewall sample
DS-H-10							Diesel dispenser excavation
10.0	19-May-98	5500	<0.25	<0.25	<0.25	<0.25	sidewall sample
DS-I-9							Diesel dispenser excavation
9.0	21-May-98	1.5	<0.25	<0.25	<0.25	<0.25	sidewall sample

.bbreviations

<x = Not detected at a detection limit of x.

TEPH = Total Extractable Petroleum Hydrocarbons carbon range C9 to C24 by EPA Method 8015 (Modified).

BTEX = benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020.



PLATE

2

SITE PLAN/CHEMICAL ANALYTICAL MAP

Shell San Jose Plant
2165 O'Toole Avenue
San Jose, California

CAMBRIA
240-1181

Drawn By: JN

Date: 27-May-98

Approved By _____ Date _____

Table 3
Soil Analytical Data
Total Petroleum Hydrocarbons and MtBE

Shell Oil Products US
Fuel Distribution Terminal
2165 O'Toole Avenue, San Jose, California

Boring/ Well Number	Sample Depth (feet, bgs)	Date Sampled	TPPH (mg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	MtBE† by 8020 (mg/kg)	MtBE† by 8260 (mg/kg)
GP-1	10.0	11/22/00	37.4	a	0.392	0.0893	0.0389	0.107	2.12	NA
	13.5	11/22/00	358	a	1.92	4.59	7.38	29.9	27.6	NA
	17.5	11/22/00	477	a	6.46	23.5	13.3	61.6	138	97.3
	19.0	11/22/00	46.0	a	1.34	0.121	0.860	0.559	110	NA
GP-2	7.5	11/22/00	4.47	a	0.0111	0.00690	0.0292	0.0331	0.942	NA
	10.0	11/22/00	12.9	a	0.0853	0.0366	0.227	0.506	1.89	NA
	13.5	11/22/00	503	a	5.23	15.5	11.3	55.9	18.2	NA
	17.5	11/22/00	1030	a	9.08	77.2	25.9	131	42.0	NA
	19.5	11/22/00	143	a	2.22	6.02	3.96	10.6	79.5	NA
GP-3	10.0	11/22/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	14.5	11/22/00	499	a	2.86	0.698	7.65	18.5	2.65	NA
	18.5	11/22/00	506	a	4.74	4.30	12.5	42.6	34.1	NA
	21.5	11/22/00	1.51	a	<0.00500	0.0136	0.0128	0.0307	6.29	NA
GP-4	10.0	11/22/00	4.65	a	0.0344	0.0262	0.00740	0.0795	0.282	NA
	13.5	11/22/00	633	a	4.23	3.77	9.84	36.7	<5.00	NA
	15.5	11/22/00	351	a	0.396	10.8	7.22	37.3	<2.50	NA
	20.0	11/22/00	1.54	a	0.0140	0.0400	0.0206	0.0402	0.522	NA
GP-5	11.5	11/22/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	16.0	11/22/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
GP-6	15.0	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	19.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
GP-7	15.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	19.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	0.323	0.346 b
GP-8	15.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	19.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
GP-9	16.0	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	19.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
GP-10	9.5	11/21/00	<1.00		<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA
	15.5	11/21/00	3.48	a	0.0529	0.00620	0.00810	0.0135	<0.0500	NA
	19.0	11/21/00	3.51	a	0.0112	0.00730	0.0100	0.0148	<0.0500	NA
GP-11	9.5	11/21/00	<1.00		0.00775	0.00520	<0.00500	0.0117	0.186	NA
	16.5	11/21/00	149	a	1.22	0.333	2.89	<0.100	<1.00	NA
	19.5	11/21/00	30.1	a	0.403	0.0685	0.998	0.100	<0.250	NA

TPPH = Total purgeable petroleum hydrocarbons by EPA Method 8015M.
MtBE = Methyl tert-butyl ether
bgs = Below ground surface
mg/kg = Milligrams per kilogram
† = MtBE analyzed using EPA Method 8020 or 8260, as specified
NA = Not analyzed
a = Chromatogram Pattern: Gasoline C6-C12
b = This sample was analyzed outside of the EPA recommended hold time.
Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B.

Table 1. Soil Chemical Analytical Data, Shell Bulk Terminal, 2161 O'Toole, San Jose, California

Sample ID	Depth (fbg)	Date	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2 Dichloroethane (mg/kg)
P-1-5.5'	5.5	11-Dec-07	<2.0	**16**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
P-1-10'	10	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
P-1-15'	15	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
P-1-20'	20	11-Dec-07	**100**	**8.1**	**0.021**	**0.01**	**0.065**	<0.010	<0.0050	<0.010	<0.010	<0.010	**1.7**	<0.0050
P-1-25'	25	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	**2.4**	<0.0050
P-1-30'	30	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	**1.7**	<0.0050
MW-23-5.5'	5.5	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-23-10'	10	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-23-15'	15	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-23-20'	20	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-23-25'	25	11-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-24-5.5'	5.5	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-24-10'	10	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-24-15'	15	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-24-20'	20	12-Dec-07	**130**	**5**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-24-25'	25	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	**0.079**	<0.0050
MW-24-30'	30	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-25-5.5'	5.5	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-25-10'	10	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-25-15'	15	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-25-20'	20	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050
MW-25-25'	25	12-Dec-07	<2.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.0050

Table 1. Soil Chemical Analytical Data, Shell Bulk Terminal, 2161 O'Toole, San Jose, California

Notes and Abbreviations:
mg/kg = Milligrams per kilogram
<x = Not detected at reporting limit
fbg = feet below grade
TPHg = Total petroleum hydrocarbons as gasoline by EPA method 8015M
TPHd = Total petroleum hydrocarbons as diesel by EPA method 8015B
All other constituents by EPA Method 8260B
MTBE = Methyl tertiary butyl alcohol
DIPE = Dissopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butyl alcohol

TABLE 1

SOIL ANALYTICAL DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE
SAN JOSE, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*
GP-29-9.5'	2/25/2010	9.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-29-14.5'	2/25/2010	14.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-29-19'	2/25/2010	19	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-30-6'	2/25/2010	6	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-30-10'	2/25/2010	10	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-30-15'	2/25/2010	15	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-30-19.5'	2/25/2010	19.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-31-10'	2/25/2010	10	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-31-14.5'	2/25/2010	14.5	**590**	<0.50	<0.50	**11**	6.9	<0.50	<5.0	<1.0	<1.0	<1.0
GP-31-17.5'	2/25/2010	17.5	32	<0.50	<0.50	**7.1**	3.8	<0.50	<5.0	<1.0	<1.0	<1.0
GP-32-5.5'	2/25/2010	5.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-32-10'	2/25/2010	10	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-32-15'	2/25/2010	15	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-32-20.5'	2/25/2010	20.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-33-5.5'	2/25/2010	5.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-33-10'	2/25/2010	10	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-33-15'	2/25/2010	15	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-33-18.5'	2/25/2010	18.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-34-5.5'	2/25/2010	5.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-34-10'	2/25/2010	10	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-34-15'	2/25/2010	15	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
GP-34-19.5'	2/25/2010	19.5	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010
Shallow Soil (≤10 fbg) ESL [a]:			180	0.27	9.3	4.7	11	8.4	110	NA	NA	NA
Deep Soil (>10 fbg) ESL [a]:			180	2.0	9.3	4.7	11	8.4	110	NA	NA	NA

Notes:

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.
fbg = Feet below grade
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8015
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TABLE 1

SOIL ANALYTICAL DATA
SHELL SAN JOSE TERMINAL
2165 O'TOOLE AVENUE
SAN JOSE, CALIFORNIA

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
<x = Not detected at reporting limit x
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D of Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

No samples were collected from borings GP-35 and GP-36.

APPENDIX D

SVE AND GWE SYSTEM DATA TABLES

Table 3 (continued)
Soil Vapor Extraction System Performance Data

Equilon Fuel Distribution Plant
2165 O'Toole Avenue
San Jose, California

				Field Measurements		TPPH			Benzene		
Sample I.D.	Date Sampled	Hourmeter Reading (hours)	Flow Rate (cfm)	Influent TLV Reading (after dilution) (ppmv)	Effluent TLV Reading (ppmv)	Influent Concen-tration (ppmv)	Removal Rate (lbs/day)	Removed To Date (lbs)	Influent Concen-tration (ppmv)	Removal Rate (lbs/day)	Removed To Date (lbs)
INFL	12/19/95 a	10,613.00	39	N/A b	20	780	11.6	0.0	4.3	0.05	0.00
INFL	12/20/95	10,635.75	35	1,600	140	307	4.1	7.4	ND	0.00	0.02
INFL	12/21/95	10,658.63	20	2,200	140	132	1.0	9.8	1.4	0.01	0.03
INFL	01/03/96	10,973.28	50	1,000	25	130	2.5	32.6	0.43	0.01	0.13
INFL	01/17/96 c	11,311.46	70	1,000	20	31	0.8	55.8	0.14	0.003	0.20
INFL	02/02/96	11,691.72	80	40	ND	225	6.8	116.4	ND	0.00	0.23
INFL	02/13/96 d	11,732.00	80	150	ND	142	4.3	125.8	2.1	0.05	0.27
INFL	05/01/96 e	11,734.00	74	125	50	118	3.3	126.1	1.0	0.02	0.27
INFL	05/02/96	11,757.00	64	400	30	191	4.7	129.9	1.9	0.04	0.30
INFL	07/02/96	12,263.00	65	1,000	ND	135	3.3	214.1	2.1	0.04	1.16
INFL	07/15/96	12,577.00	60	370	1	85	1.9	248.6	ND	0.00	1.45
INFL	08/05/96	12,694.00	60	1,000	ND	208	4.7	264.9	ND	0.00	1.45
INFL	08/19/96	12,822.00	69	1,900	ND	284	7.4	297.4	4.9	0.11	1.73
INFL	09/10/96	13,351.00	67	310	2	128	3.3	415.2	ND f	0.10	4.02
INFL	09/25/96 g	13,711.00	67	180	ND	236	6.0	484.8	6.9	0.14	5.87
INFL	03/31/97 h	13,714.00	62	850	ND	173	4.1	485.4	4.0	0.08	5.88
INFL	04/17/97	14,116.00	67	795	10	57	1.4	531.6	0.32	0.01	6.59
INFL	05/01/97	14,432.00	70	255	10	47	1.3	549.4	0.25	0.01	6.67
INFL	05/16/97	14,714.00	70	375	5	35	0.9	562.3	1.3	0.03	6.86
INFL	05/29/97	15,026.00	64	255	ND	161	3.9	593.9	3.7	0.07	7.53
INFL	06/11/97	15,339.00	50	300	5	144	2.7	637.3	3.5	0.05	8.37
INFL	06/24/97	15,650.00	51	260	5	196	3.8	679.7	4.6	0.07	9.19
INFL	07/07/97	15,962.00	60	340	ND	57	1.3	712.8	1.6	0.03	9.87
INFL	07/22/97	16,321.00	51	305	2	73	1.4	733.1	1.3	0.02	10.26
INFL	08/07/97	16,705.00	45	260	ND	47	0.8	751.0	0.95	0.01	10.53
INFL	08/26/97	17,163.00	50	240	3	144	2.7	784.8	3.2	0.05	11.13
INFL	09/24/97 j	17,858.00	55	94	8	71	1.5	846.0	1.4	0.02	12.19
INFL	08/20/98 k	17,859.96	57	250	ND	74	1.6	846.0	ND	0.003	12.19
INFL	09/14/98	18,460.00	53	120	5	135	2.7	900.0	6.9	0.11	13.66
INFL	09/30/98	18,842.00	60	150	ND	54	1.2	931.5	1.1	0.02	14.73
INFL	10/14/98	19,178.00	61	140	6	20	0.5	943.4	ND	0.001	14.88
INFL	10/27/98	19,491.00	60	700	150	16	0.4	948.7	0.1	0.002	14.90
INFL	11/11/98	19,804.00	50	230	10	43	0.8	956.3	0.8	0.013	14.99
INFL	11/30/98	20,256.00	48	65	3	16	0.3	966.6	0.088	0.001	15.12
INFL	12/14/98	20,591.00	58	57	ND	11	0.3	970.4	0.1	0.002	15.14
INFL	12/29/98	20,951.00	58	125	ND	28	0.6	977.0	0.5	0.009	15.22
INFL	01/20/99 l	21,443.00	51	23	5	16	0.3	986.6	0.1	0.002	15.34

REPORTING PERIOD:	08/20/98 - 1/20/99 (k)
TOTAL POUNDS TPPH REMOVED:	986.6
TOTAL GALLONS TPPH REMOVED:	161.7
TOTAL POUNDS BENZENE REMOVED:	15.34
TOTAL GALLONS BENZENE REMOVED:	2.09
PERIOD POUNDS TPPH REMOVED:	140.6
PERIOD GALLONS TPPH REMOVED:	23.0
PERIOD POUNDS BENZENE REMOVED:	3.15
PERIOD GALLONS BENZENE REMOVED:	0.43
PERIOD AVERAGE FLOW RATE (scfm):	56
PERIOD PERCENT OPERATIONAL:	98%

Table 3 (continued)
Soil Vapor Extraction System Performance Data

Equilon Fuel Distribution Plant
2165 O'Toole Avenue
San Jose, California

				Field Measurements		TPPH			Benzene		
Sample I.D.	Date Sampled	Hourmeter Reading (hours)	Flow Rate (cfm)	Influent TLV Reading (after dilution) (ppmv)	Effluent TLV Reading (ppmv)	Influent Concen-tration (ppmv)	Removal Rate (lbs/day)	Removed To Date (lbs)	Influent Concen-tration (ppmv)	Removal Rate (lbs/day)	Removed To Date (lbs)

TPPH = Total purgeable petroleum hydrocarbons
cfm = Cubic feet per minute
TLV = Threshold limit value
ppmv = Parts per million by volume, converted from micrograms per liter
lbs = Pounds
ND = Not detected above the detection limit
N/A = Not available or not applicable
a. SVE system startup on 12/19/95.
b. Could not obtain TLV reading >10,000 ppmv.
c. Samples taken on 1/19/96.
d. SVE system temporarily shut down 2/13/96.
e. SVE system re-activated on 5/1/96.
f. Detection limit high due to sample matrix (125 µg/L); assume same benzene concentration as prior sampling event.
g. SVE system temporarily shut down 9/25/96.
h. SVE system restarted 3/31/97.
j. SVE system shut down following sampling.
k. SVE system restarted 8/20/98.
l. SVE system shut down 1/25/99.
Mass removed to date is calculated using averaged mass removal rates, which are based on instantaneous data.
Analytes reported as ND assume a concentration of zero for mass removal calculations.
See individual certified analytical reports for detection limits.

Equations:
Removal Rates: = (flow rate (cfm) x 1440 min/day) x [((TPPH [µg/L]/4.230)/1,000,000) x 0.264]
= (flow rate (cfm) x 1440 min/day) x [((benzene [µg/L]/4.230)/1,000,000) x 0.217]
Removed to Date: = Prior RTD + [((averaged removal rates)/24 hrs/day) x net hours of operation)]

TABLE 2

NPDES SELF-MONITORING PROGRAM - OPERATION AND MASS REMOVAL DATA
SHELL BULK FUEL TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Site Visit (mm/dd/yy)	Hour Meter hours	Footnotes	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Conc. (ppb)	TPHg Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	Cumulative Removal (pounds)
Historical Extracted Groundwater and Mass Removal Totals:															
11/15/06						4,677,110			794.0			13.80			773.6
02/22/07	using lab from 1/30/07			4800		4,681,910	2,000	0.080	794.1	3.2	0.0000	13.80	3,000	0.120	773.7
02/23/07				4200		4,686,110		0.070	794.2		0.0001	13.80		0.105	773.8
02/27/07				2200		4,688,310		0.037	794.2		0.0001	13.80		0.055	773.9
03/01/07	0.0	a	0	4800		4,693,110	760	0.030	794.2	3.2	0.0000	13.80	3,000	0.120	774.0
						4,693,110			794.2			13.80			774.0
Groundwater Discharged to Storm Drain															
03/08/07	185.1	a	12,905	12,905	1.16	4,706,015		0.082	794.3		0.0003	13.8		0.323	774.3
03/12/07	280.3	b	24,950	12,045	2.11	4,718,060	2,500	0.251	794.6	<5.4	0.0003	13.8	6,400	0.643	775.0
03/21/07	496.2		52,230	27,280	2.11	4,745,340		0.569	795.1		0.0006	13.8		1.46	776.4
03/29/07	687.5	c	74,452	22,222	1.94	4,767,562		0.464	795.6		0.0005	13.8		1.19	777.6
03/30/07	708.5		76,034	1,582	1.26	4,769,144		0.033	795.6		0.0000	13.8		0.084	777.7
04/04/07	830.7		88,600	12,566	1.71	4,781,710		0.262	795.9		0.0003	13.8		0.671	778.4
04/11/07	999.8	d	105,680	17,080	1.68	4,798,790	47	0.007	795.9	0.64	0.0001	13.8	3,400	0.485	778.9
04/18/07	1167.1		123,005	17,325	1.73	4,816,115		0.007	795.9		0.0001	13.8		0.49	779.4
04/26/07	1357.3		140,518	17,513	1.53	4,833,628		0.007	795.9		0.0001	13.8		0.50	779.8
04/30/07	1415.0	e	146,421	5,903	1.71	4,839,531		0.002	795.9		0.0000	13.8		0.167	780.0
07/19/07	1425.3	f, g	147,718	1,297	0.01	4,839,531		0.001	795.9		0.0000	13.8		0.037	780.1
08/01/07	1427.8	g	148,824	1,106	0.06	4,839,531		0.000	795.9		0.0000	13.8		0.031	780.1
09/12/07	1428.0	g	149,090	266	0.00	4,839,531		0.000	795.9		0.0000	13.8		0.008	780.1
09/17/07	1544.6	c	156,500	7,410	1.03	4,846,941	44	0.003	795.9	2.4	0.0001	13.8	260	0.016	780.1
09/24/07	1718.3	c	168,000	11,500	1.14	4,858,441	< 55	0.003	795.9	0.7	0.0001	13.8	430	0.041	780.1
10/01/07	1886.8	c	181,035	13,035	1.29	4,871,476	45	0.005	795.9	2.2	0.0002	13.8	800	0.087	780.2
10/09/07	2076.8	c	198,434	17,399	1.51	4,888,875	< 54	0.004	795.9	<0.44	0.0000	13.8	1,800	0.261	780.5
10/15/07	2221.4	c	209,900	11,466	1.33	4,900,341	120	0.011	796.0	0.56	0.0001	13.8	2,900	0.277	780.8
10/23/07	2412.0	c	227,550	17,650	1.53	4,917,991	99	0.015	796.0	2.2	0.0003	13.8	2,600	0.383	781.2
10/29/07	2556.2	c	240,970	13,420	1.55	4,931,411	120	0.013	796.0	1.3	0.0001	13.8	1,800	0.202	781.4
11/05/07	2723.9	c	256,337	15,367	1.52	4,946,778	74	0.009	796.0	<1.5	0.0000	13.8	2,200	0.282	781.6
11/12/07	2892.0	c	271,580	15,243	1.51	4,962,021	190	0.024	796.0	0.94	0.0001	13.8	2,200	0.280	781.9
11/19/07	3062.9		287,214	15,634	1.55	4,977,655	NS	0.025	796.0	NS	0.0001	13.8	NS	0.287	782.2
11/21/07	3112.1	f	291,382	4,168	1.45	4,981,823	NS	0.007	796.1	NS	0.0000	13.8	NS	0.077	782.3

TABLE 2

NPDES SELF-MONITORING PROGRAM - OPERATION AND MASS REMOVAL DATA
SHELL BULK FUEL TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Site Visit (mm/dd/yy)	Hour Meter hours	Footnotes	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Conc. (ppb)	TPHg Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Benzene Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	MTBE Period Removal (pounds)	Cumulative Removal (pounds)
11/26/07	3228.0	c	301,808	10,426	1.45	4,992,249	160	0.014	796.1	<0.74	0.0000	13.8	2,200	0.191	782.5
12/03/07	3396.5	c	315,363	13,555	1.34	5,005,804	190	0.021	796.1	3.1	0.0004	13.8	2,000	0.226	782.7
12/10/07	3563.5	c	328,532	13,169	1.31	5,018,973	240	0.026	796.1	7.5	0.0008	13.8	1,800	0.198	782.9
12/17/07	3732.8	c	341,310	12,778	1.27	5,031,751	130	0.014	796.1	0.9	0.0001	13.8	1,800	0.192	783.1
12/27/07	3971.7	c	362,204	20,894	1.45	5,052,645	100	0.017	796.1	<0.74	0.0000	13.8	2,200	0.384	783.5
12/31/07	4068.7	c	369,535	7,331	1.27	5,059,976	130	0.008	796.2	1.4	0.0001	13.8	1,700	0.104	783.6
01/07/08	4234.1		377,002	7,467	0.74	5,067,443	NS	0.008	796.2	NS	0.0001	13.8	NS	0.106	783.7
01/14/08	4410.2		385,037	8,035	0.80	5,075,478	NS	0.009	796.2	NS	0.0001	13.8	NS	0.114	783.8
01/15/08	4414.7	e, f	385,121	84	0.06	5,075,562	280	0.000	796.2	3.4	0.0000	13.8	6,700	0.005	783.8
01/22/08	4583.5	h	400,687	15,566	1.54	5,091,128	270	0.035	796.2	4.9	0.0006	13.8	4,500	0.584	784.4
01/28/08	4723.5		417,391	16,704	1.93	5,107,832	NS	0.038	796.2	NS	0.0007	13.8	NS	0.627	785.0
01/30/08	4768.6		423,379	5,988	2.08	5,113,820	140	0.003	796.2	1.1	0.0001	13.8	7,000	0.350	785.4
02/04/08	4886.2	c	435,104	11,725	1.63	5,125,545	<75	0.004	796.2	3.8	0.0004	13.8	6,400	0.626	786.0
02/11/08	5056.4	c	452,012	16,908	1.68	5,142,453	260	0.037	796.3	<1.50	0.0001	13.8	4,100	0.578	786.6
02/18/08	5222.0	c	467,002	14,990	1.49	5,157,443	300	0.019	796.3	1.6	0.0002	13.8	4,000	0.500	787.1
02/25/08	5392.6	c	483,863	16,861	1.67	5,174,304	210	0.015	796.3	<1.80	0.0001	13.8	6,400	0.900	788.0
03/03/08	5558.2		500,045	16,182	1.61	5,190,486	NS	0.028	796.3	NS	0.0001	13.8	NS	0.864	788.8
03/04/08	5587.7		503,613	3,568	2.48	5,194,054	NS	0.003	796.4	NS	0.0000	13.8	NS	0.191	789.0
03/07/08	5592.8		503,780	167	0.04	5,194,221	NS	0.000	796.4	NS	0.0000	13.8	NS	0.009	789.0
03/10/08	5599.7	e, f	504,580	800	0.19	5,195,021	230	0.001	796.4	<1.80	0.0000	13.8	6,400	0.043	789.1
03/13/08	5600.2		504,700	120	0.03	5,195,141	NS	0.000	796.4	NS	0.0000	13.8	NS	0.006	789.1
03/18/08	5610.0	g	507,990	160	0.02	5,195,301	NS	0.000	796.4	NS	0.0000	13.8	NS	0.009	789.1
03/20/08	5611.2		508,211	221	0.08	5,195,522	NS	0.000	796.4	NS	0.0000	13.8	NS	0.012	789.1
03/25/08	5621.8		511,112	2,901	0.40	5,198,423	NS	0.006	796.4	NS	0.0000	13.8	NS	0.155	789.3
03/28/08	5624.5		511,112	0	0.00	5,198,423	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	789.3
03/31/08	5629.3		511,112	0	0.00	5,198,423	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	789.3
04/03/08	5630.7		511,112	0	0.00	5,198,423	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	789.3
04/07/08	5632.0		511,112	0	0.00	5,198,423	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	789.3
07/07/08	5632.0	g, h	511,112	0	0.00	5,198,423	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	789.3
07/08/08	5665.7	g	512,615	1,503	1.04	5,199,926	280	0.004	796.4	9.0	0.0001	13.8	1,700	0.021	789.3
07/31/08	5825.9	a	513,576	961	0.03	5,199,926	NS	0.002	796.4	NS	0.0000	13.8	NS	0.014	789.3
08/04/08	5920.1	b	530,450	16,874	2.93	5,216,800	<31	0.002	796.4	<0.91	0.0001	13.8	2,800	0.394	789.7
08/11/08	5945.2	c	534,130	3,680	0.37	5,220,480	110	0.003	796.4	3.4	0.0001	13.8	670	0.021	789.7

TABLE 2

NPDES SELF-MONITORING PROGRAM - OPERATION AND MASS REMOVAL DATA
SHELL BULK FUEL TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Site Visit (mm/dd/yy)	*Hour Meter hours*	*Footnotes*	*Flow Meter Reading (gal)*	*Period Volume (gal)*	*Period Operational Flow Rate (gpm)*	*Cumulative Volume (gal)*	*TPHg Conc. (ppb)*	*TPHg Period Removal (pounds)*	*Cumulative Removal (pounds)*	*Benzene Conc. (ppb)*	*Benzene Period Removal (pounds)*	*Cumulative Removal (pounds)*	*MTBE Conc. (ppb)*	*MTBE Period Removal (pounds)*	*Cumulative Removal (pounds)*
08/19/08	6137.1	c	545,020	10,890	0.95	5,231,370	40	0.004	796.4	<0.27	0.0000	13.8	3,200	0.291	790.0
08/25/08	6281.0	c	557,750	12,730	1.47	5,244,100	22	0.002	796.4	0.4	0.0000	13.8	2,500	0.266	790.3
08/29/08	6380.0	i	564,352	6,602	1.15	5,250,702	NS	0.001	796.4	NS	0.0000	13.8	NS	0.138	790.4
08/30/08	6380.0	j	564,352	0	0.00	5,250,702	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	790.4
09/08/08	6384.1	c	564,370	18	0.00	5,250,720	69	0.000	796.4	0.72	0.0000	13.8	84	0.000	790.4
09/15/08	6384.9		564,400	30	0.00	5,250,750	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	790.4
09/22/08	6385.5		564,425	25	0.00	5,250,775	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	790.4
09/29/08	6386.5		564,450	25	0.00	5,250,800	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	790.4
10/06/08	6387.2		564,485	35	0.00	5,250,835	NS	0.000	796.4	NS	0.0000	13.8	NS	0.000	790.4
10/13/08	6389.8	g	564,980	495	0.05	5,251,330	NS	0.000	796.4	NS	0.0000	13.8	NS	0.002	790.4
10/14/08	6394.5	d, g	566,416	1,436	1.00	5,252,766	110	0.001	796.4	0.93	0.0000	13.8	500	0.006	790.4

Total Extracted Volume =	5,252,766						
Total Volume Discharged to Storm Drain =	559,852	Total Kilograms Removed:	361.2	Total Kilograms Removed:	6.3	Total Kilograms Removed:	358.5
Average Operational Flow Rate (2008)=	0.46	Total Gallons Removed:	59	Total Gallons Removed:	0.85	Total Gallons Removed:	58
Average Operational Flow Rate (4Q08)=	0.003						

TABLE 2

NPDES SELF-MONITORING PROGRAM - OPERATION AND MASS REMOVAL DATA
SHELL BULK FUEL TERMINAL
2165 O'TOOLE AVENUE, SAN JOSE, CALIFORNIA

Site Visit (mm/dd/yy)	*Hour Meter hours*	*Footnotes*	*Flow Meter Reading (gal)*	*Period Volume (gal)*	*Period Operational Flow Rate (gpm)*	*Cumulative Volume (gal)*	*TPHg Conc. (ppb)*	*TPHg Period Removal (pounds)*	*Cumulative Removal (pounds)*	*Benzene Conc. (ppb)*	*Benzene Period Removal (pounds)*	*Cumulative Removal (pounds)*	*MTBE Conc. (ppb)*	*MTBE Period Removal (pounds)*	*Cumulative Removal (pounds)*

Notes:

gal = gallon
gpm = gallons per minute
Conc. = concentration
ppb = parts per billion, equivalent to µg/L
µg/L = micrograms per liter
L = liter
g = gram
cc = cubic centimeter
TPHg = Total purgeable hydrocarbons as gasoline
MTBE = Methyl tertiary-butyl ether
BTEX = Benzene, Toluene, Ethylbenzene & Total Xylenes
NS = Not Sampled
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.
Volume removal data based on the formula: mass (pounds) x $(\text{density})^{-1}$ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)
Density inputs: TPHg = 0.73 g/cc, benzene = 0.88 g/cc, MTBE = 0.74 g/cc
TPHg, BTEX, and MTBE analyzed by EPA Method 8260B

a - Began discharging treated groundwater to the storm drain.
b - Collected fifth-day start-up samples.
c - Collected samples
d - Collected samples for quarterly analysis
e - collected carbon sample for carbon profile
f - performed carbon change out of all vessels
g - processed water was stored in an onsite storage tank and later hauled off site
h - yearly samples
i - turned off system, resampled for diesel
j - resampled for diesel

APPENDIX E

GROUNDWATER PLUME TRENDS

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

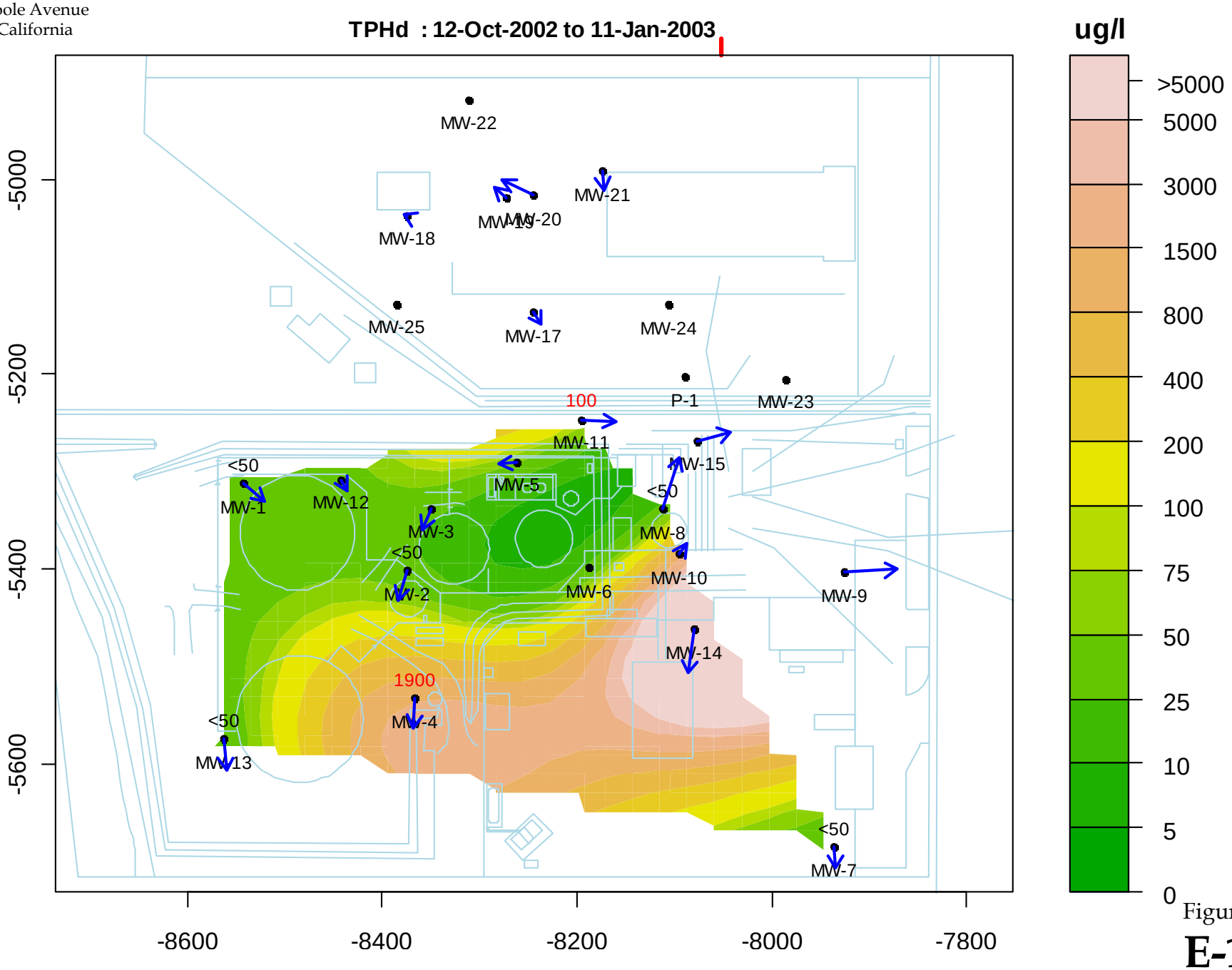


Figure
E-1

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

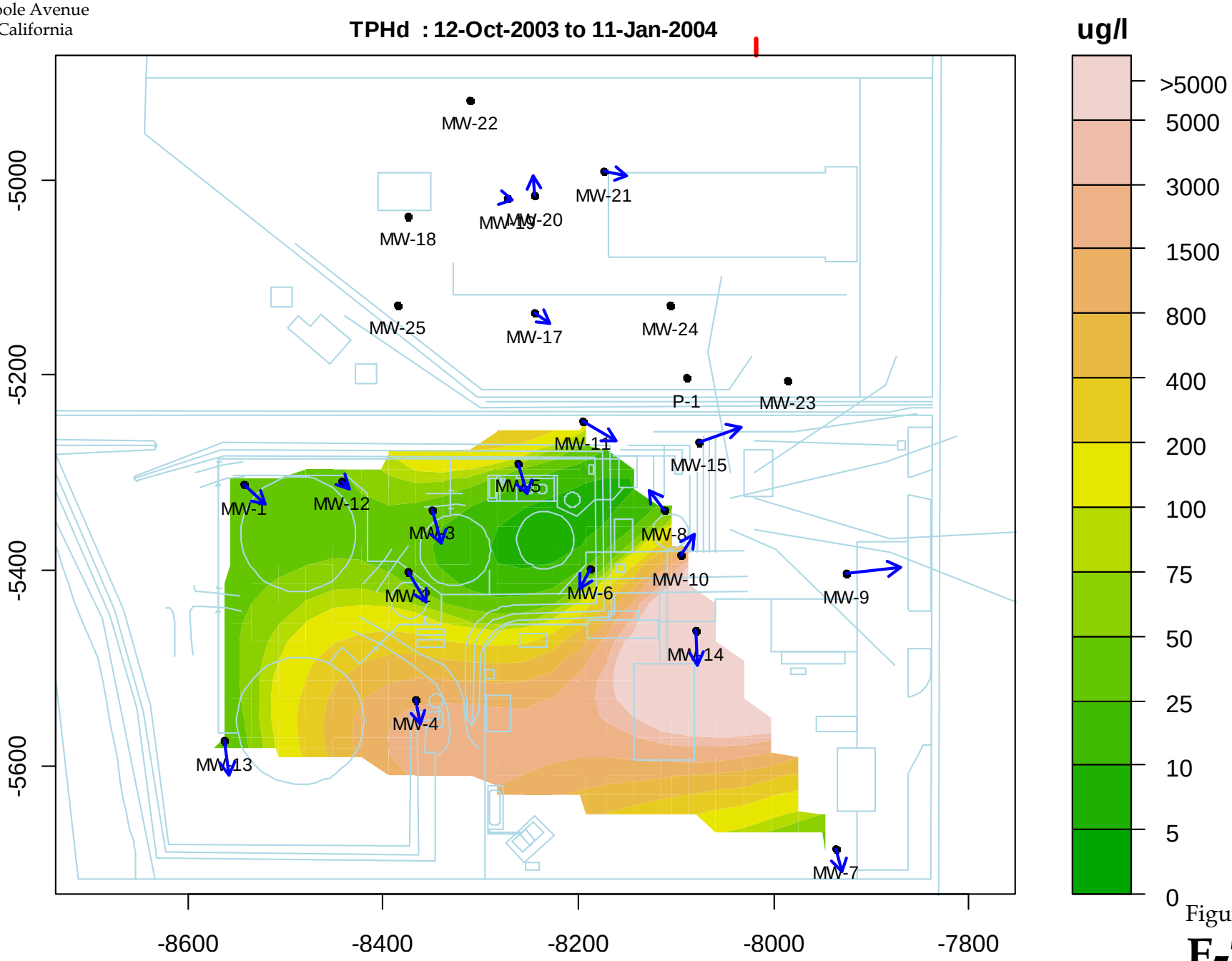


Figure
E-2

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

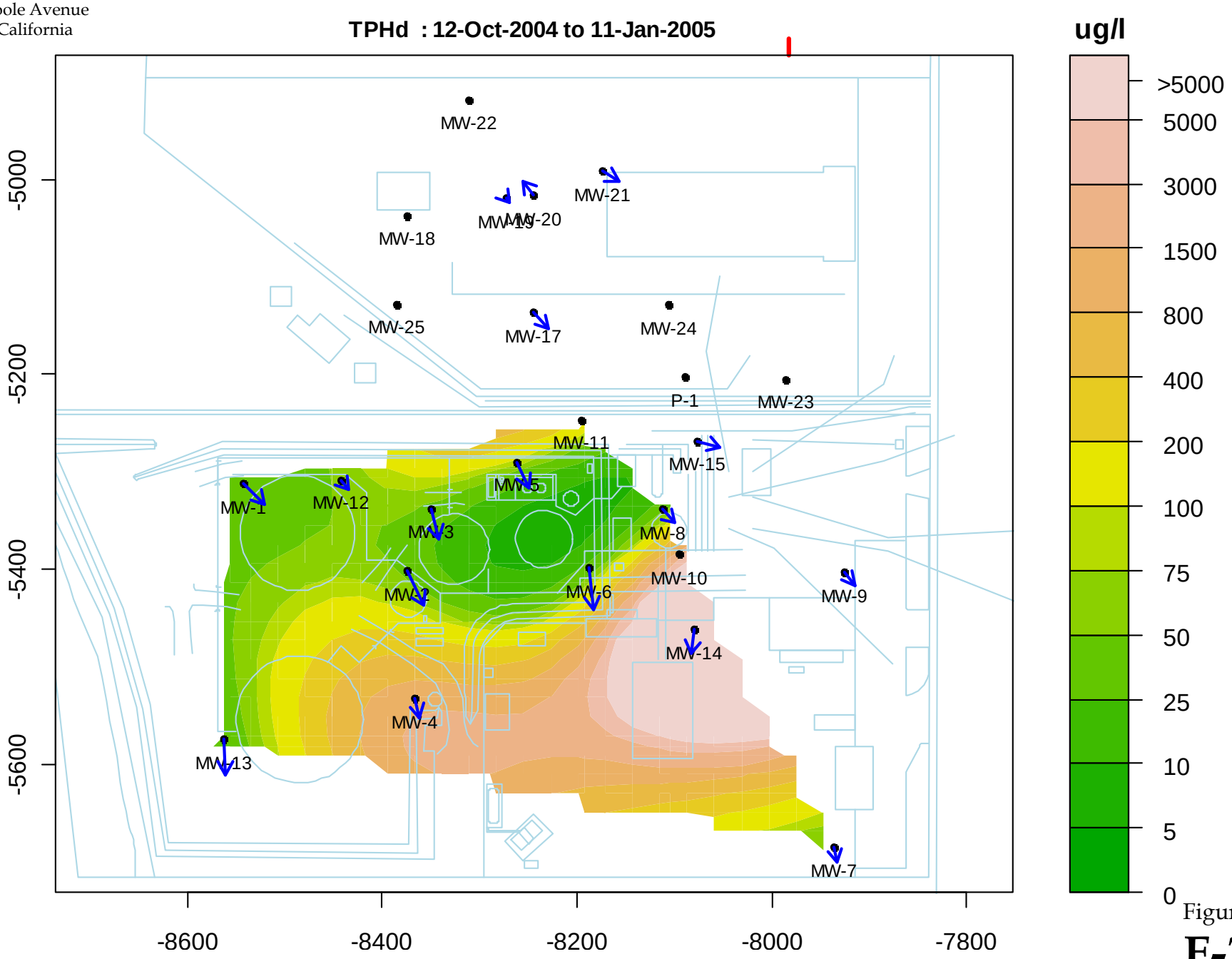


Figure
E-3

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

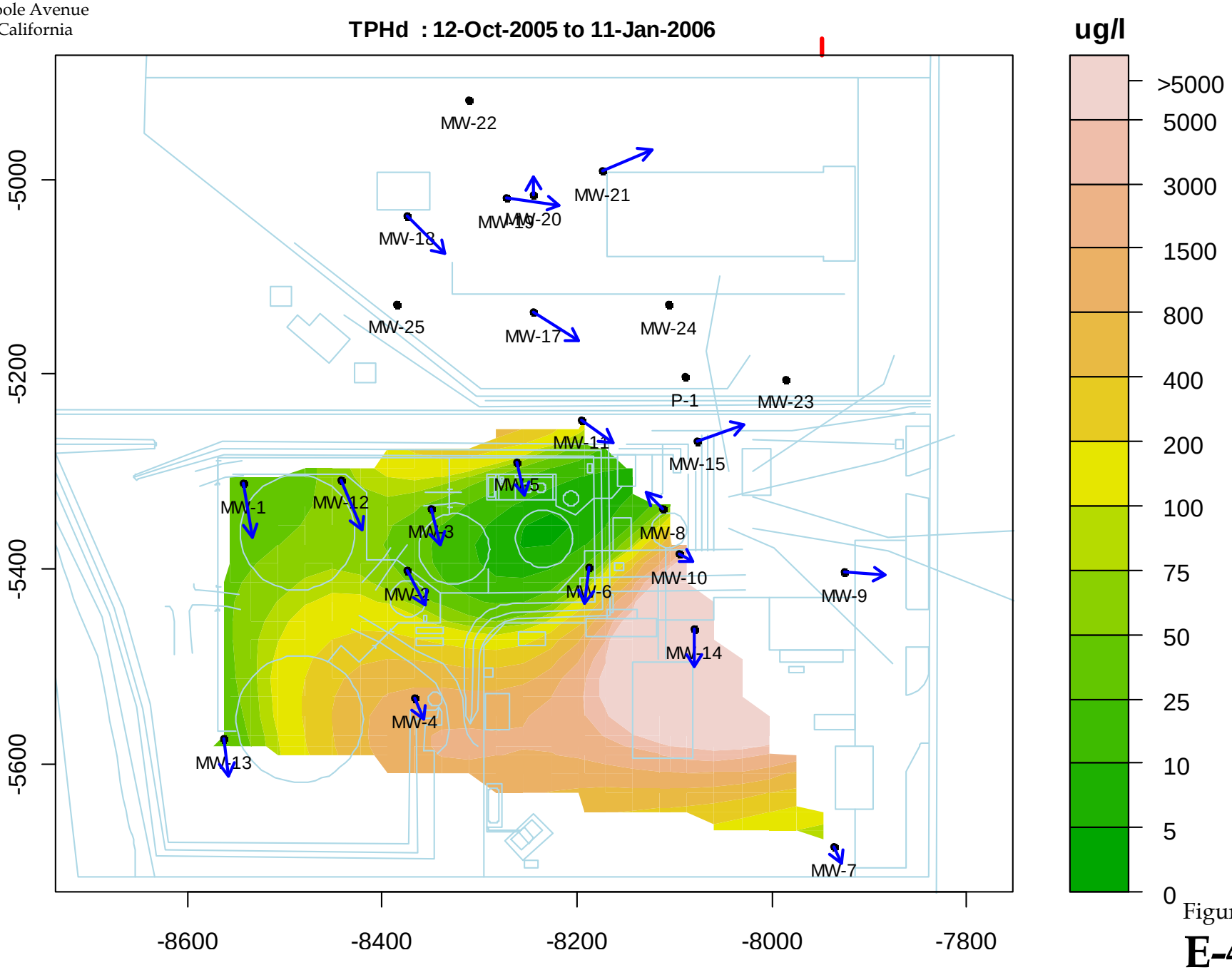


Figure
E-4

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

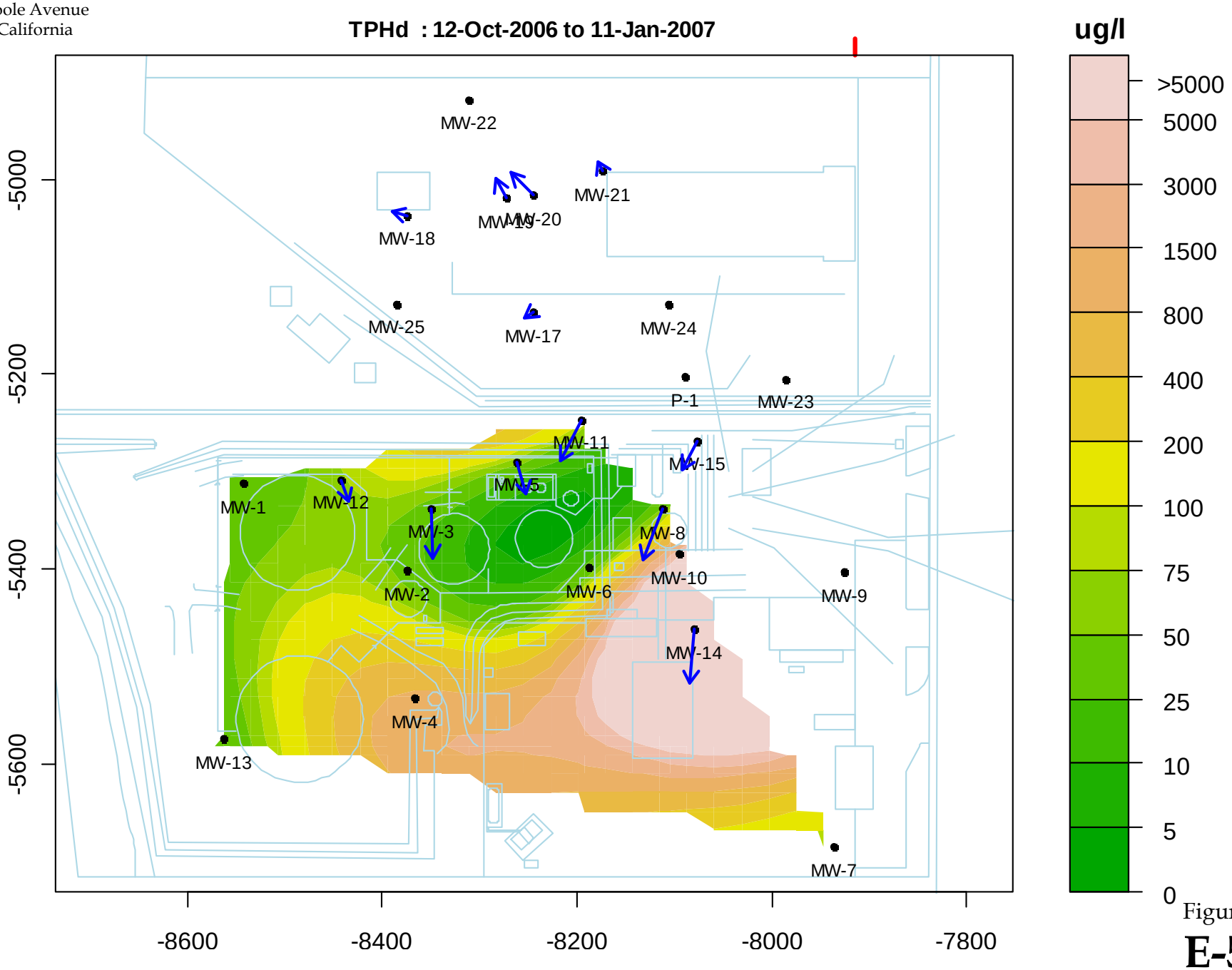


Figure
E-5

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

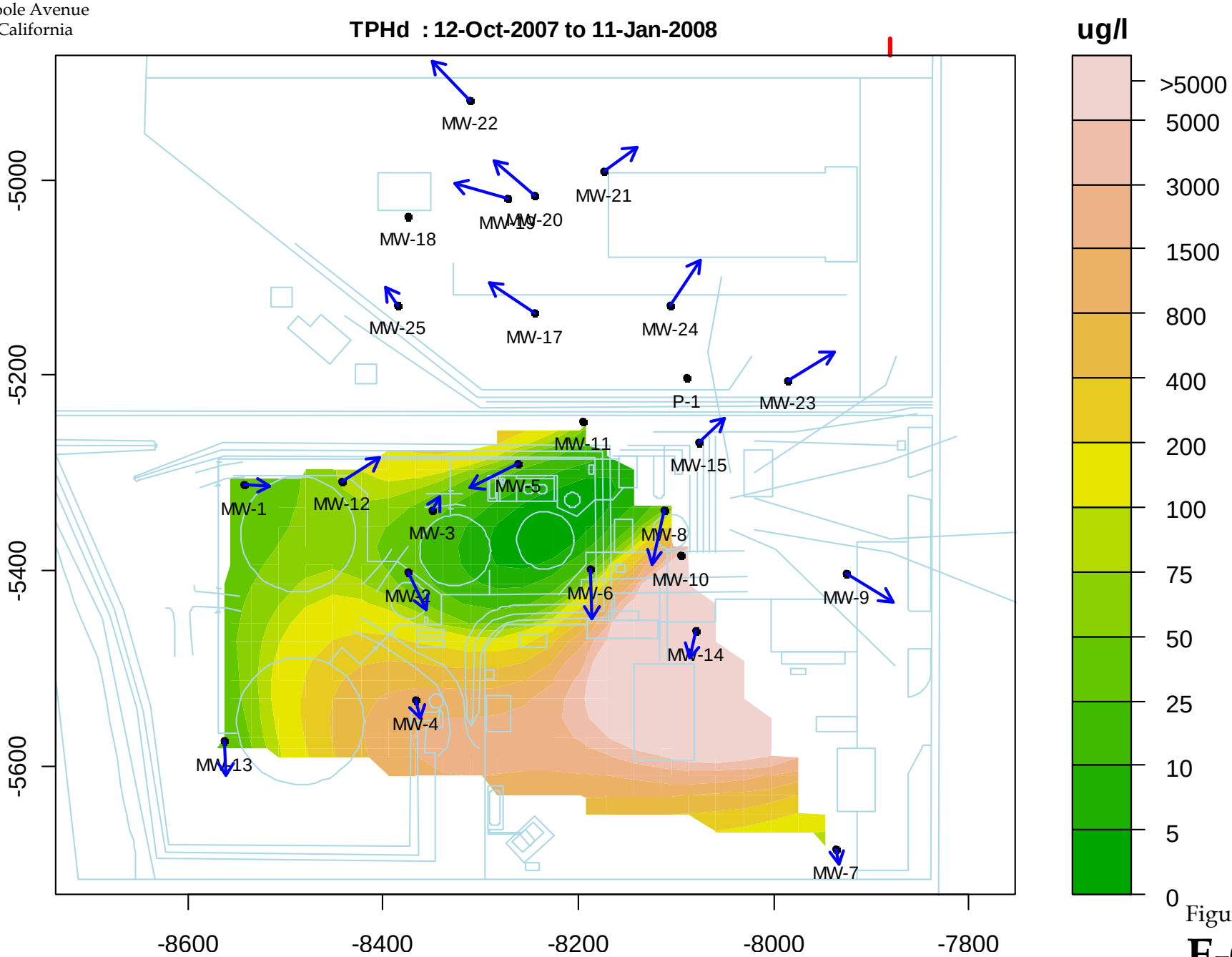


Figure
E-6

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

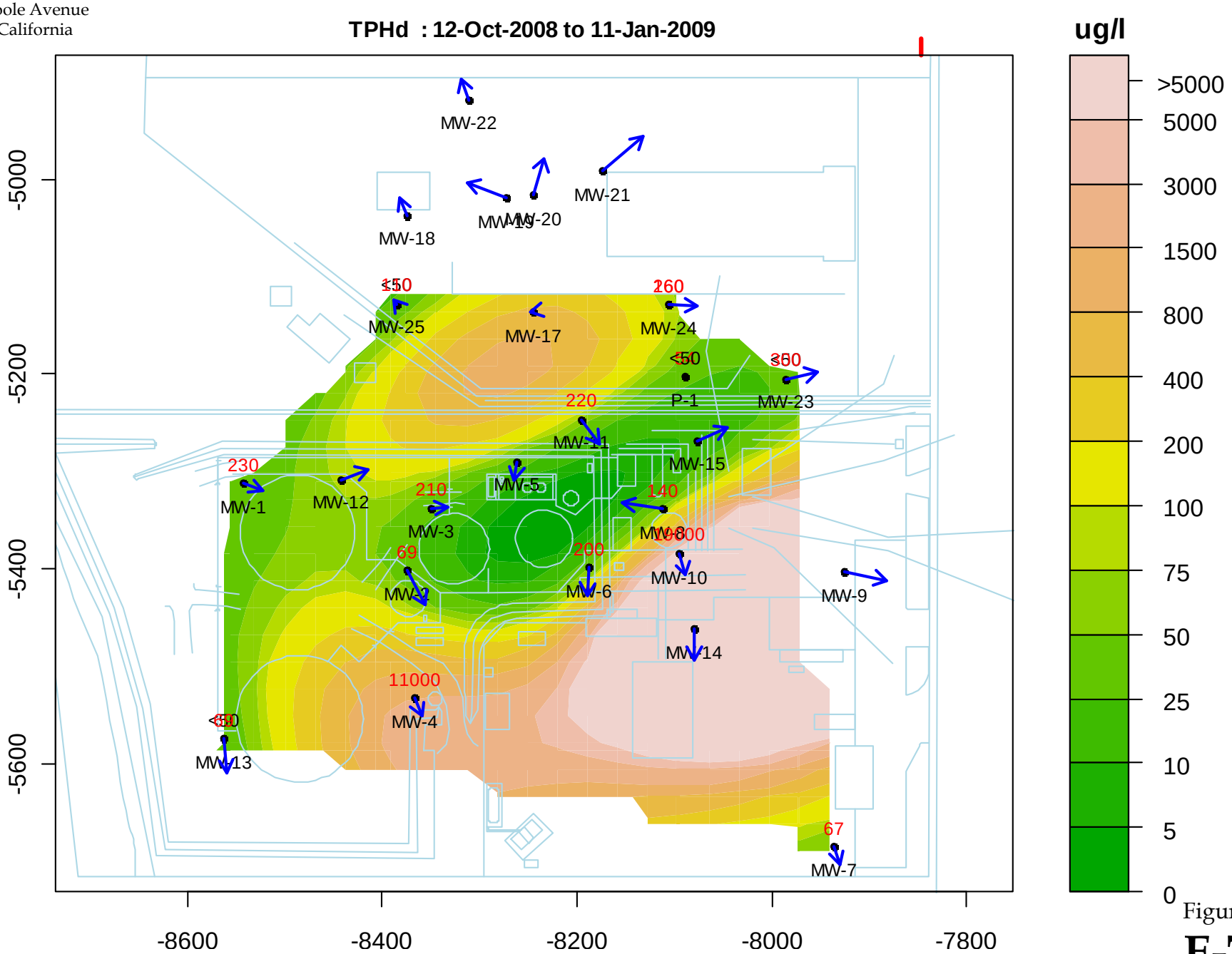


Figure
E-7

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

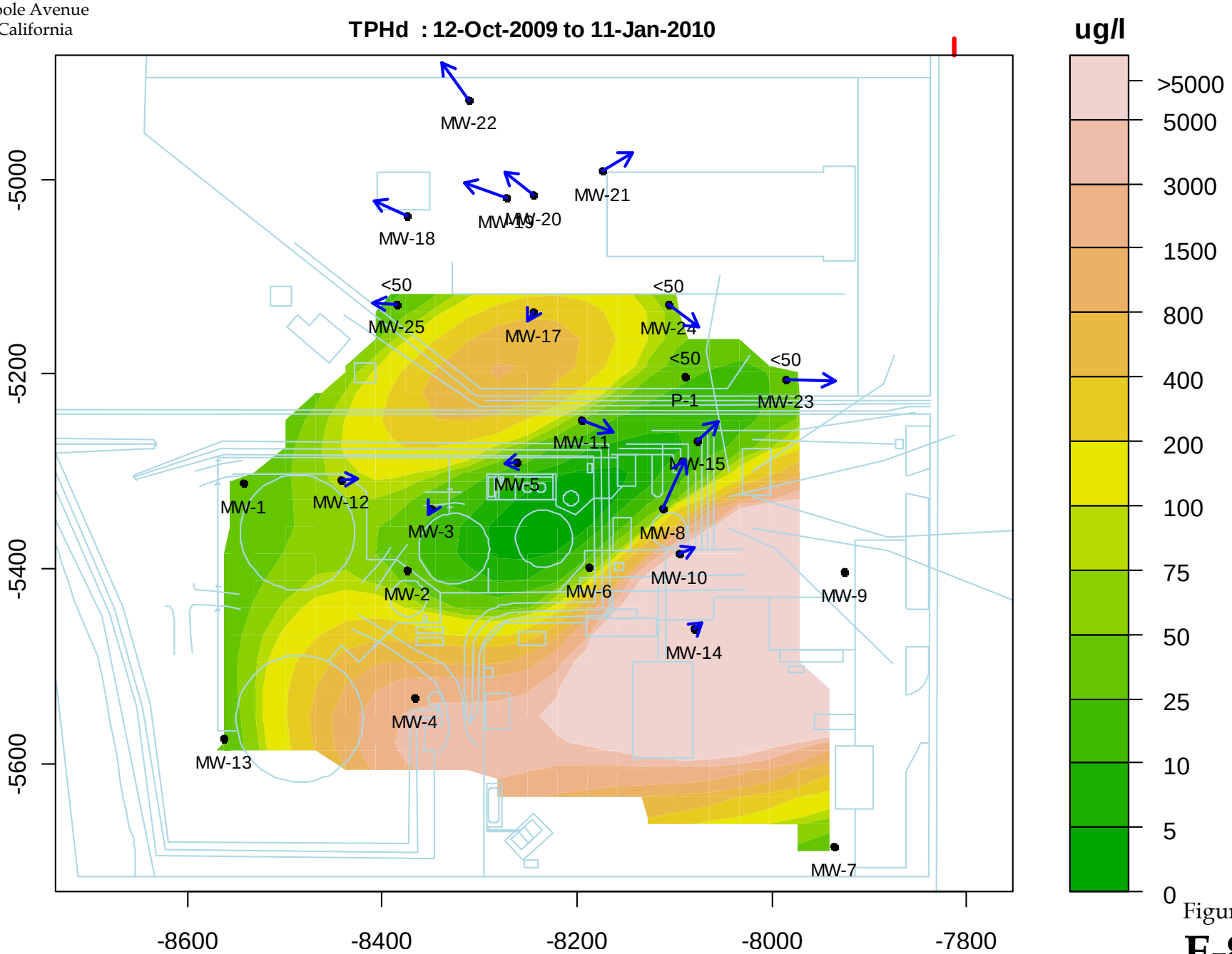


Figure
E-8

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

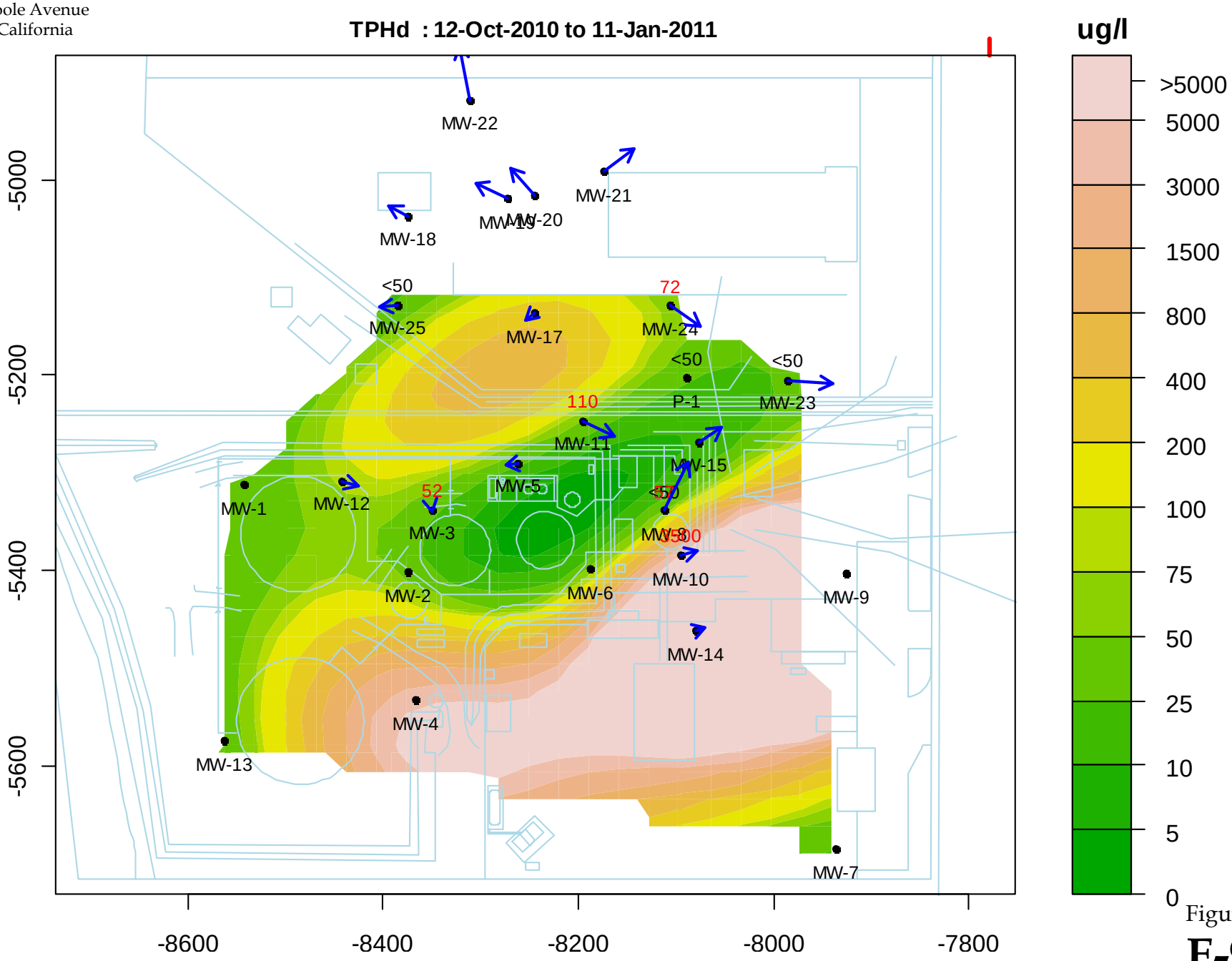


Figure
E-9

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

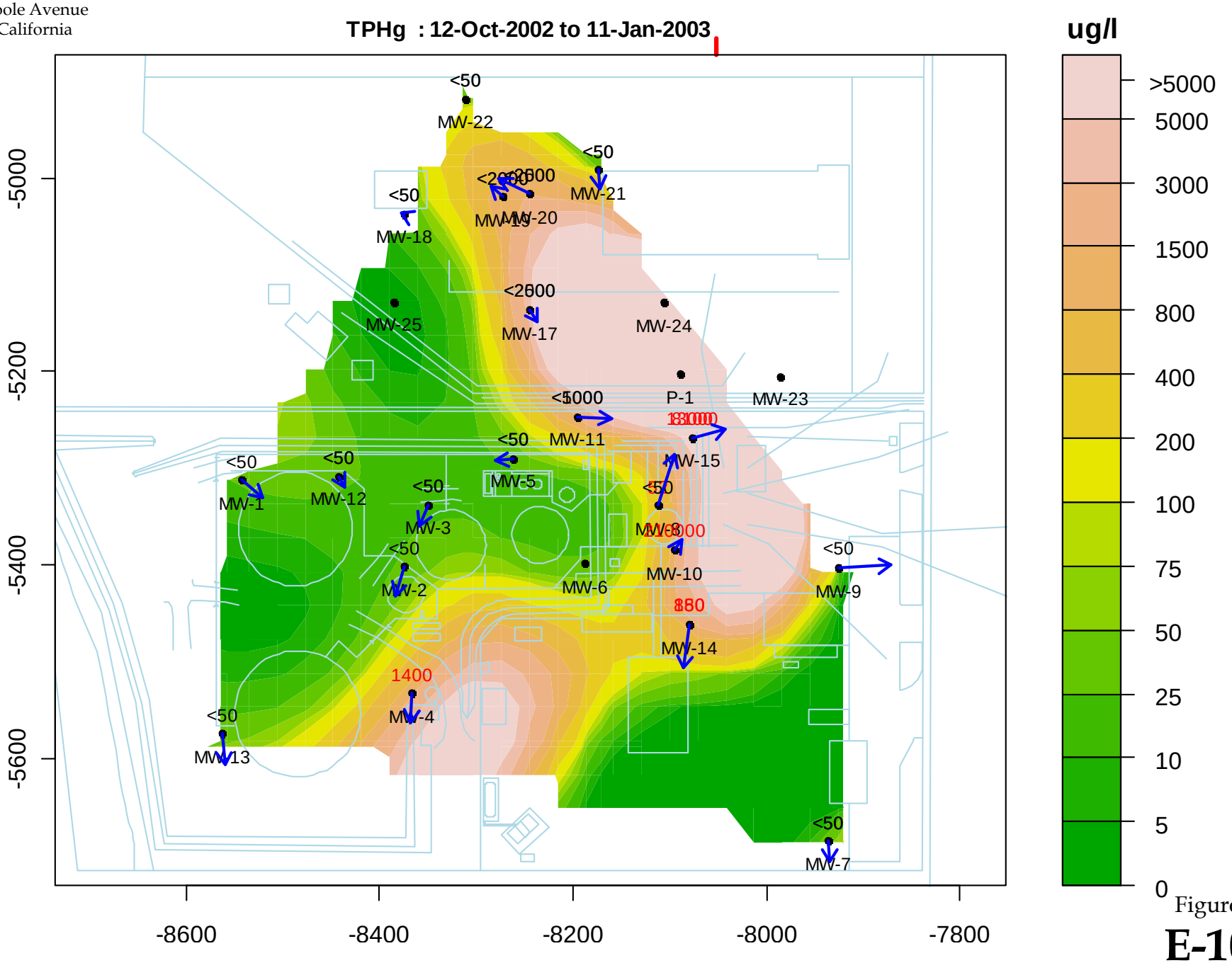


Figure
E-10

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

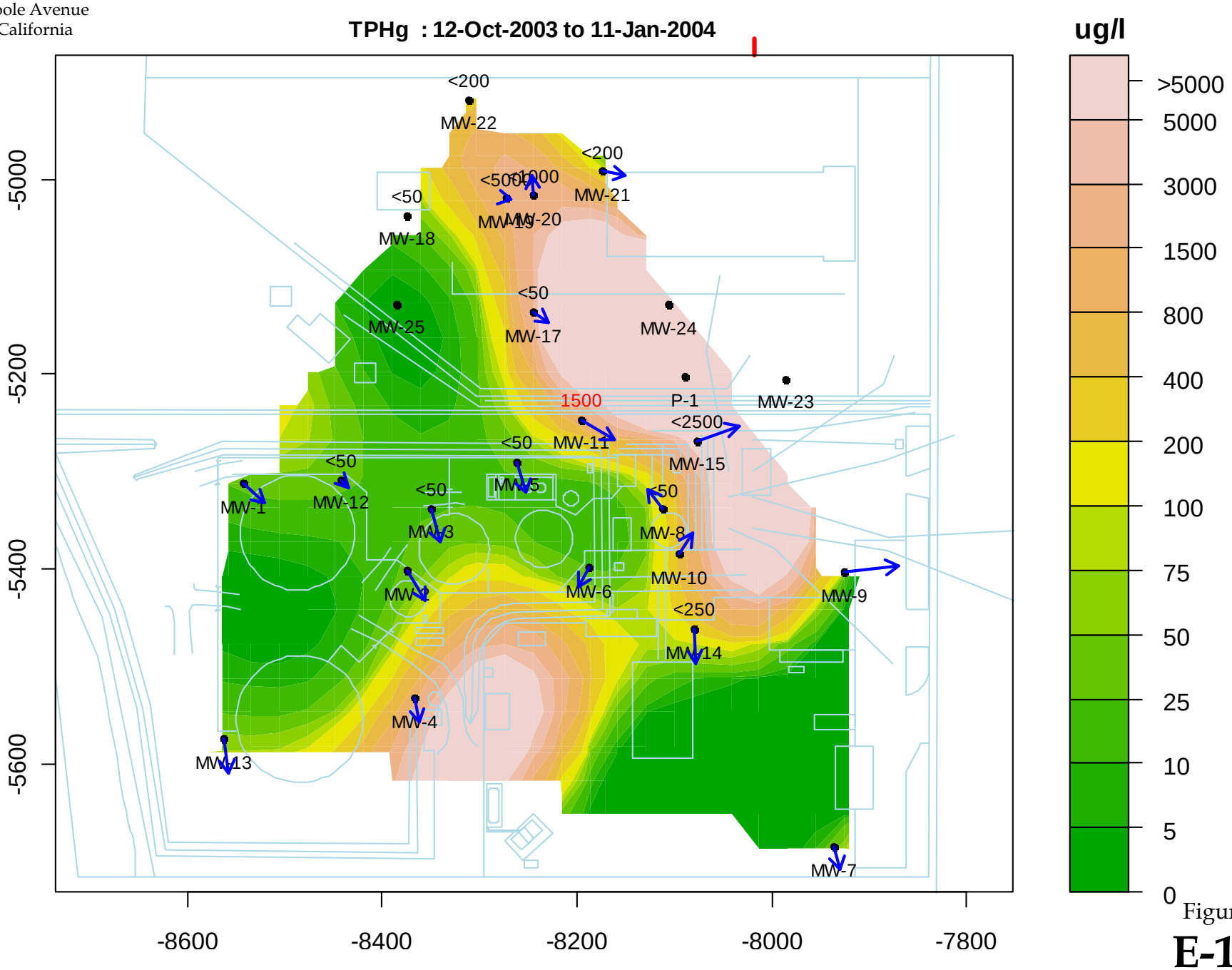


Figure
E-11

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

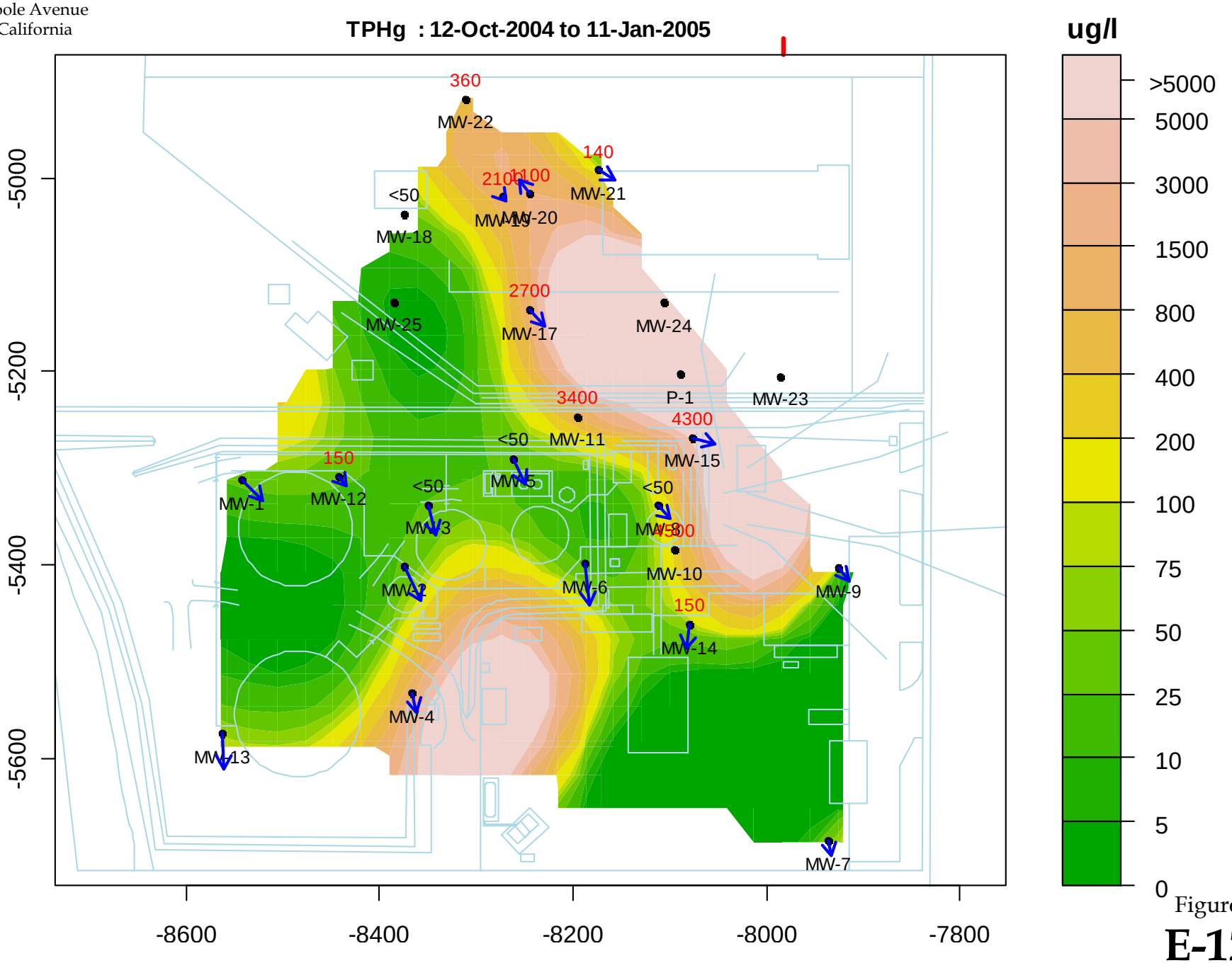


Figure
E-12

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

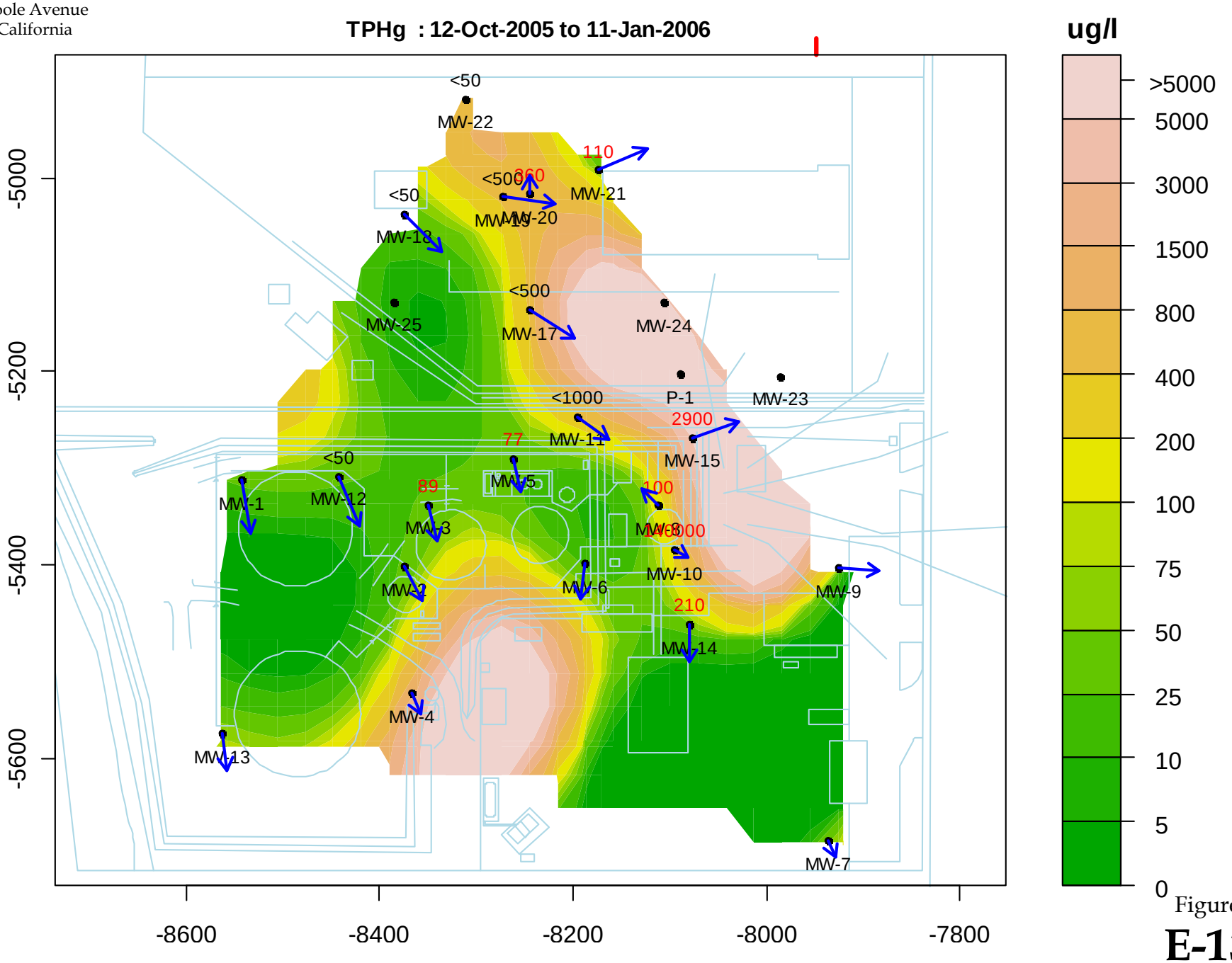


Figure
E-13

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

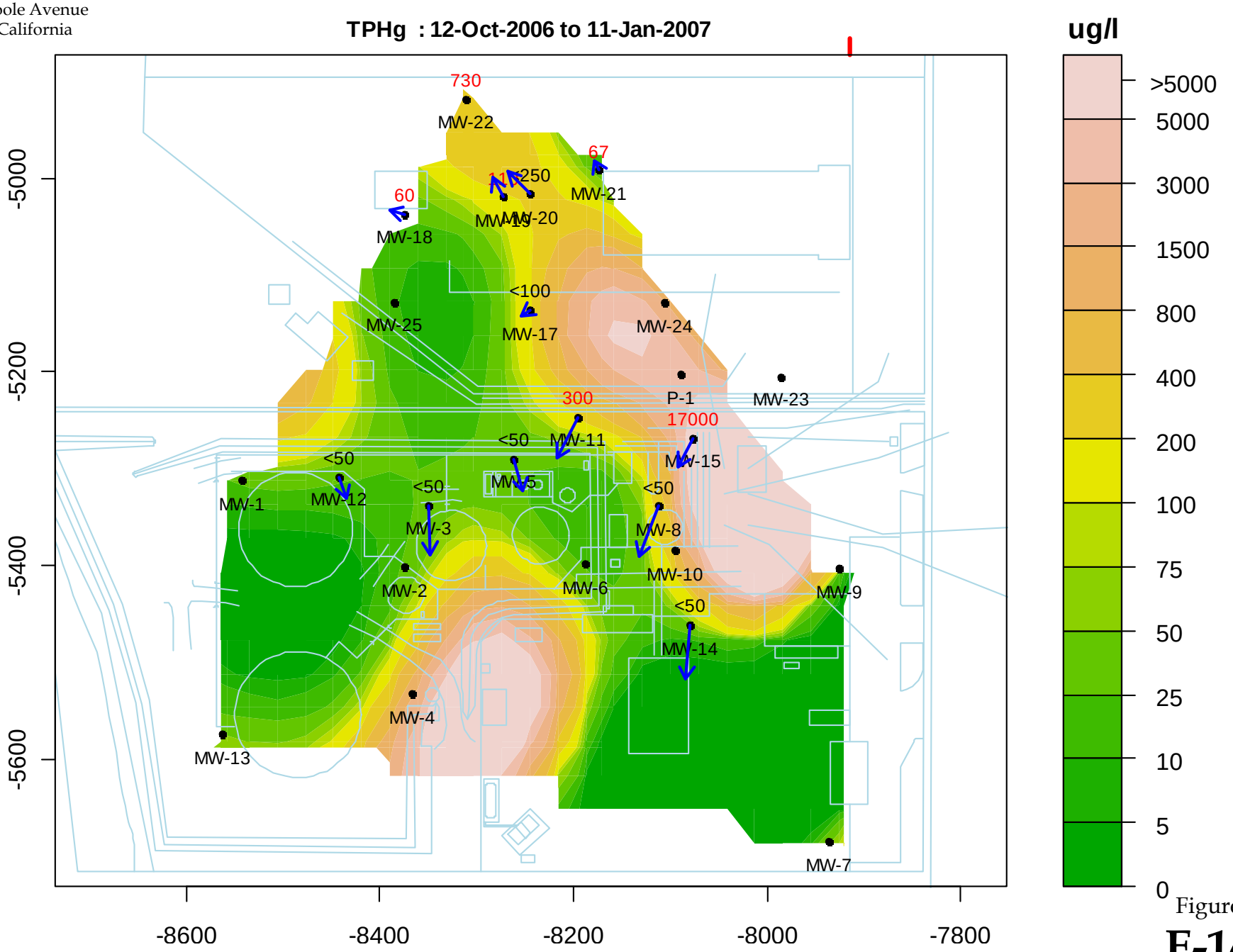


Figure
E-14

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

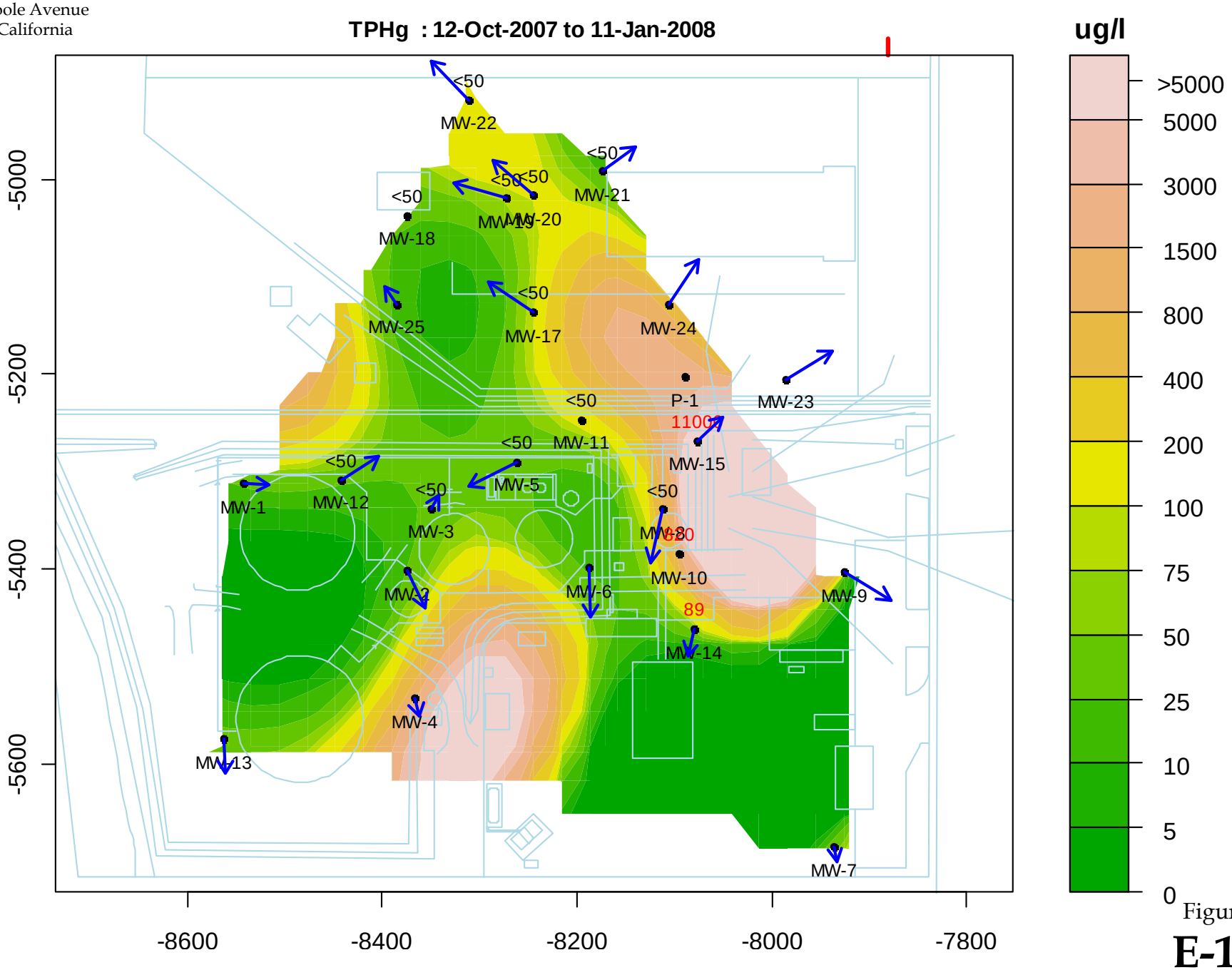


Figure
E-15

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

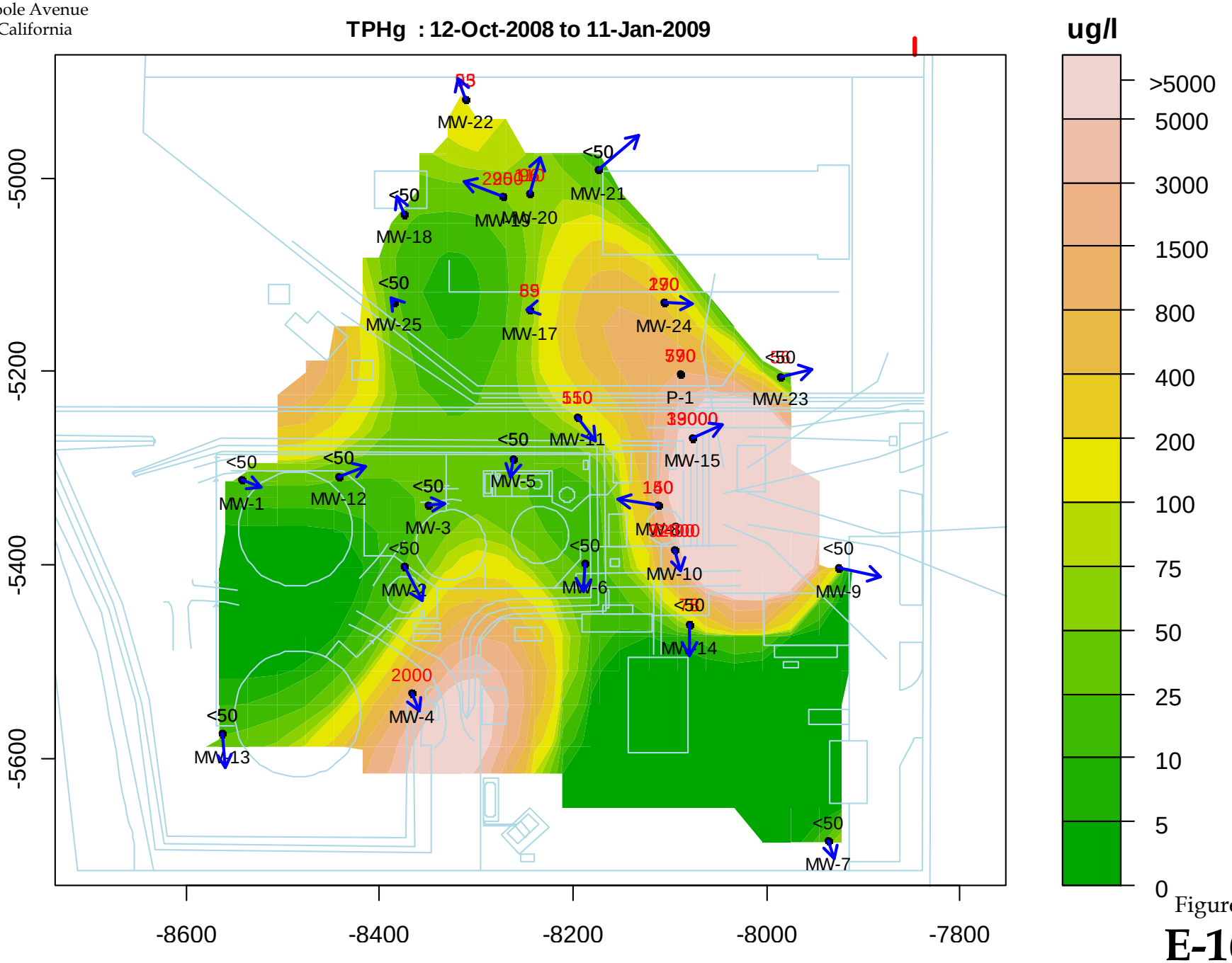


Figure
E-16

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

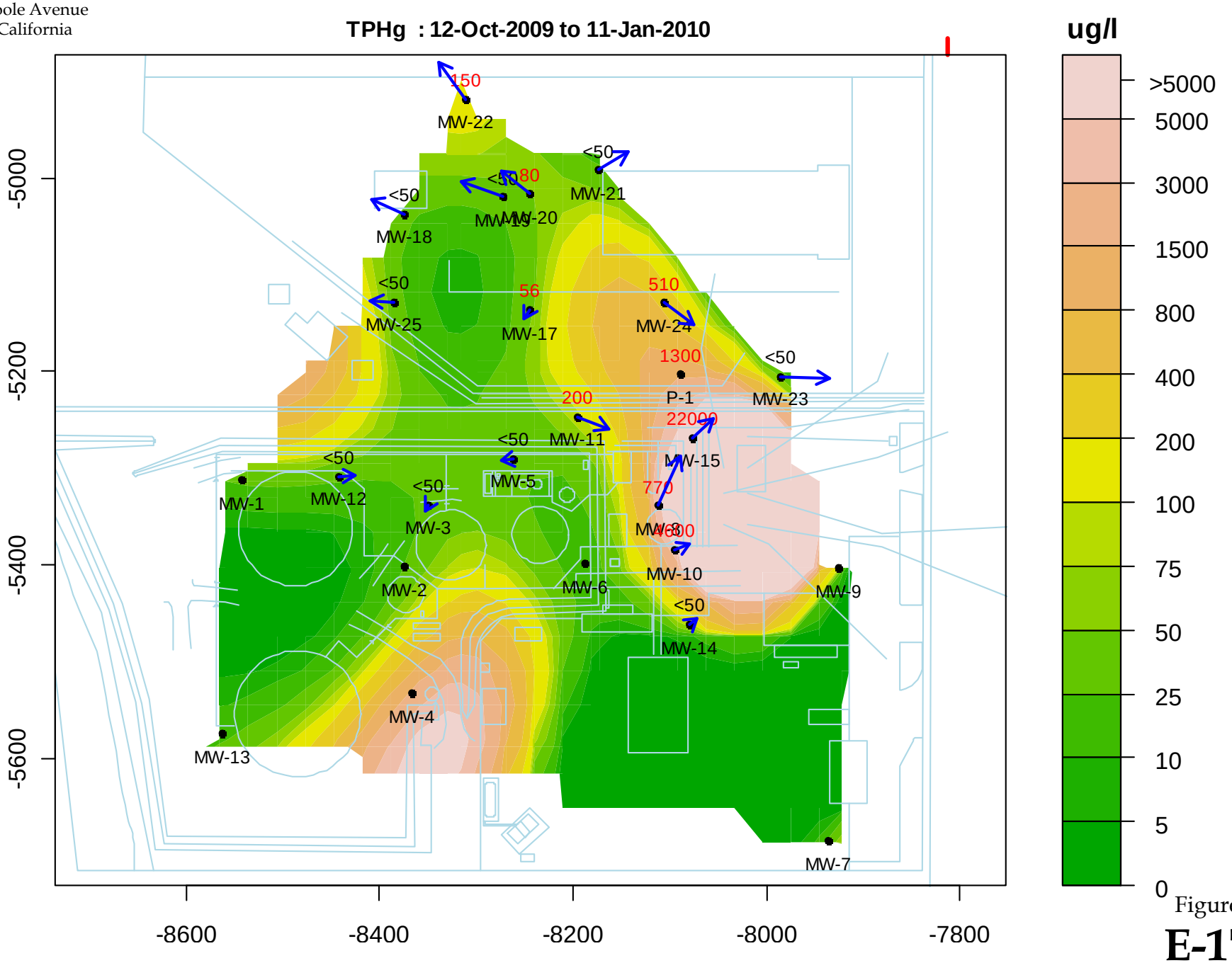


Figure
E-17

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

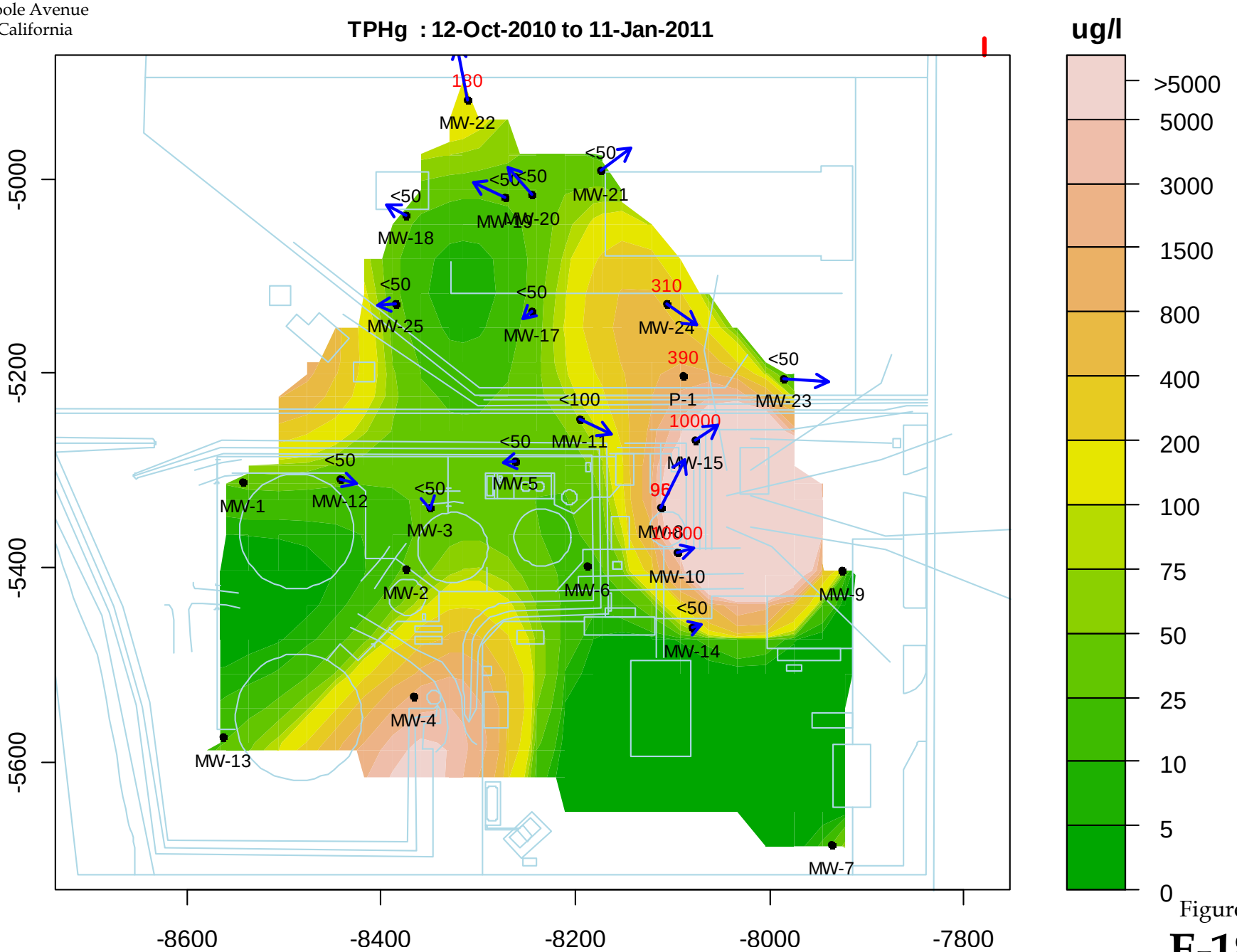


Figure
E-18

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

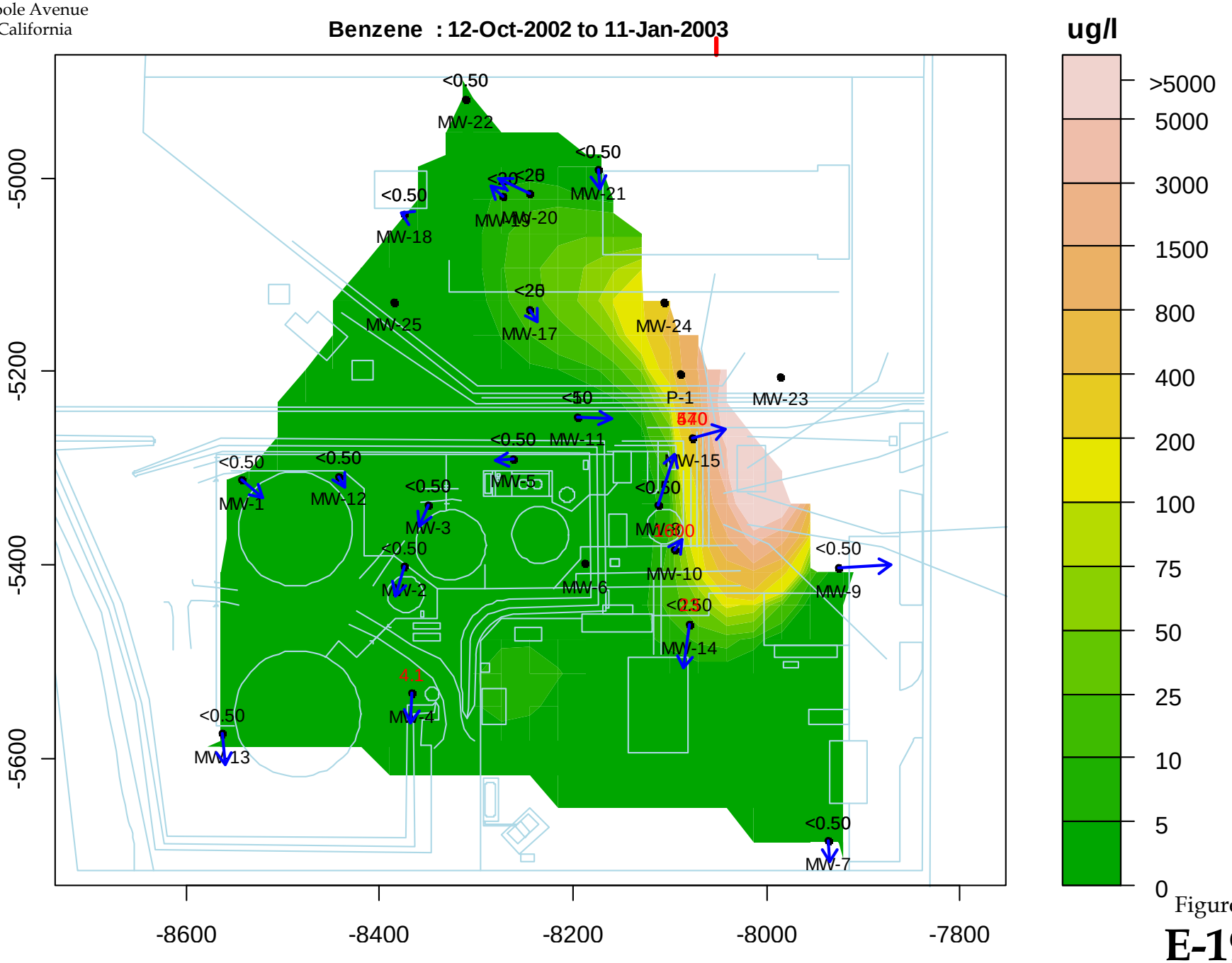


Figure
E-19

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

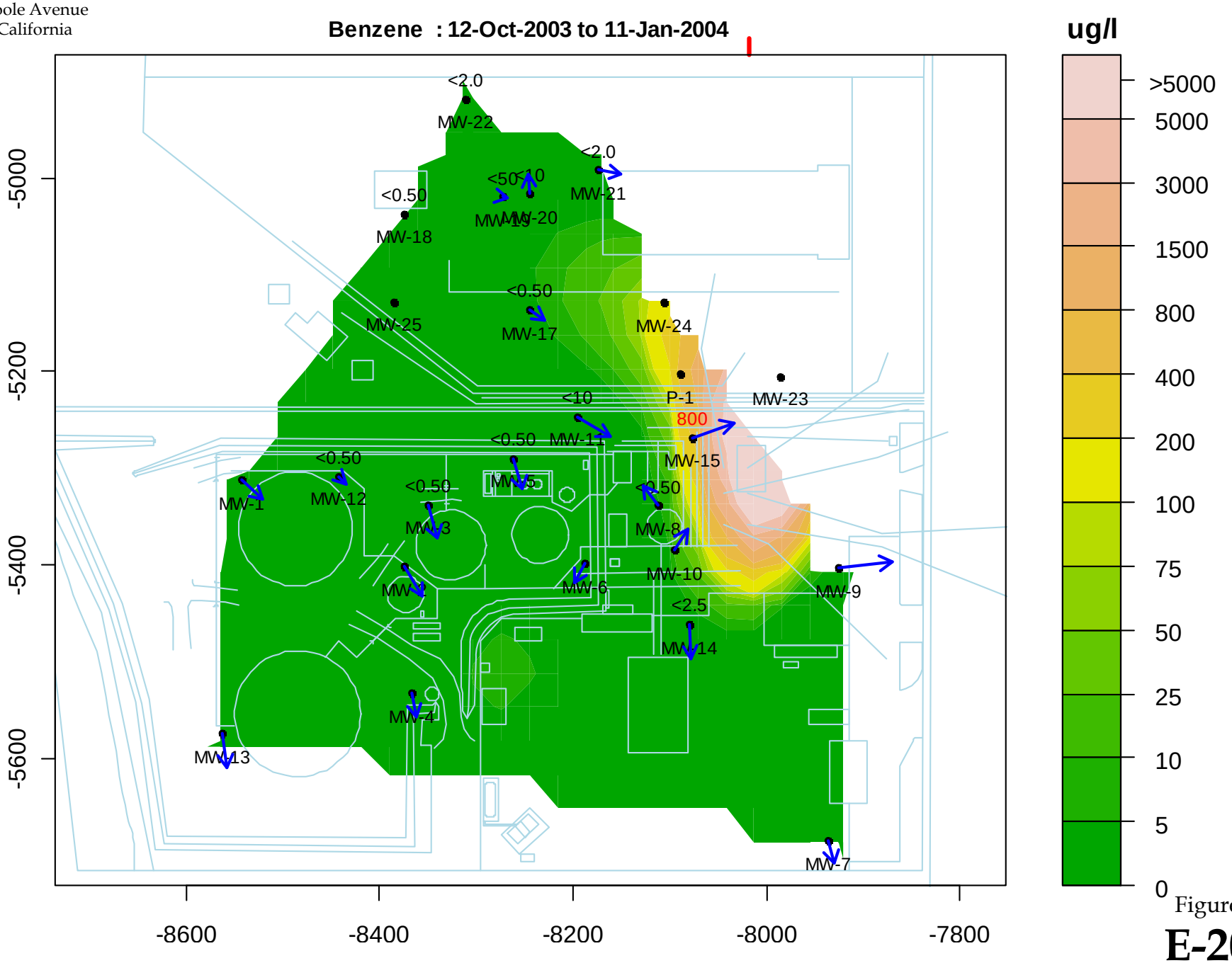


Figure
E-20

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

Benzene : 12-Oct-2004 to 11-Jan-2005

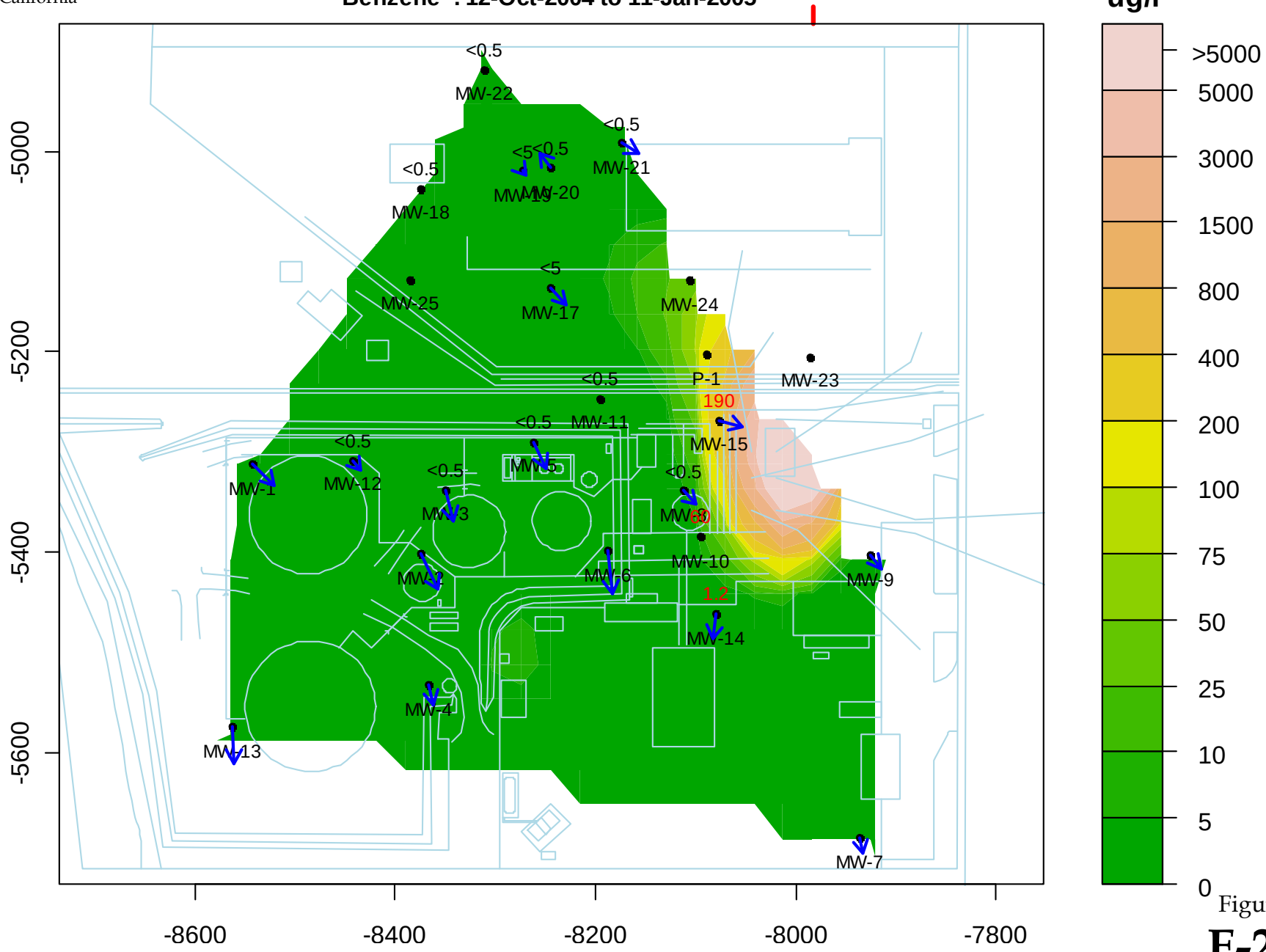


Figure
E-21

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

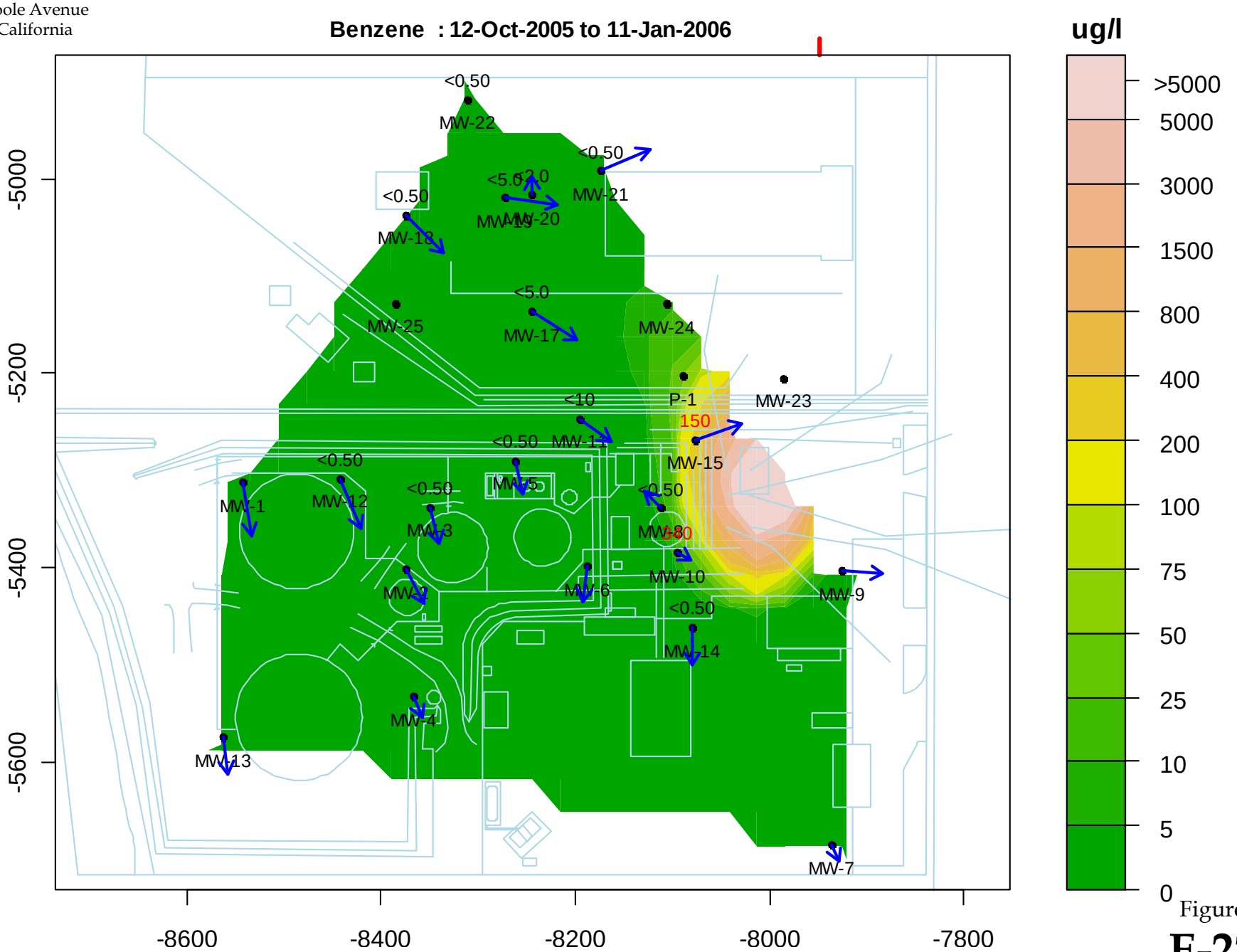


Figure
E-22

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

Benzene : 12-Oct-2006 to 11-Jan-2007

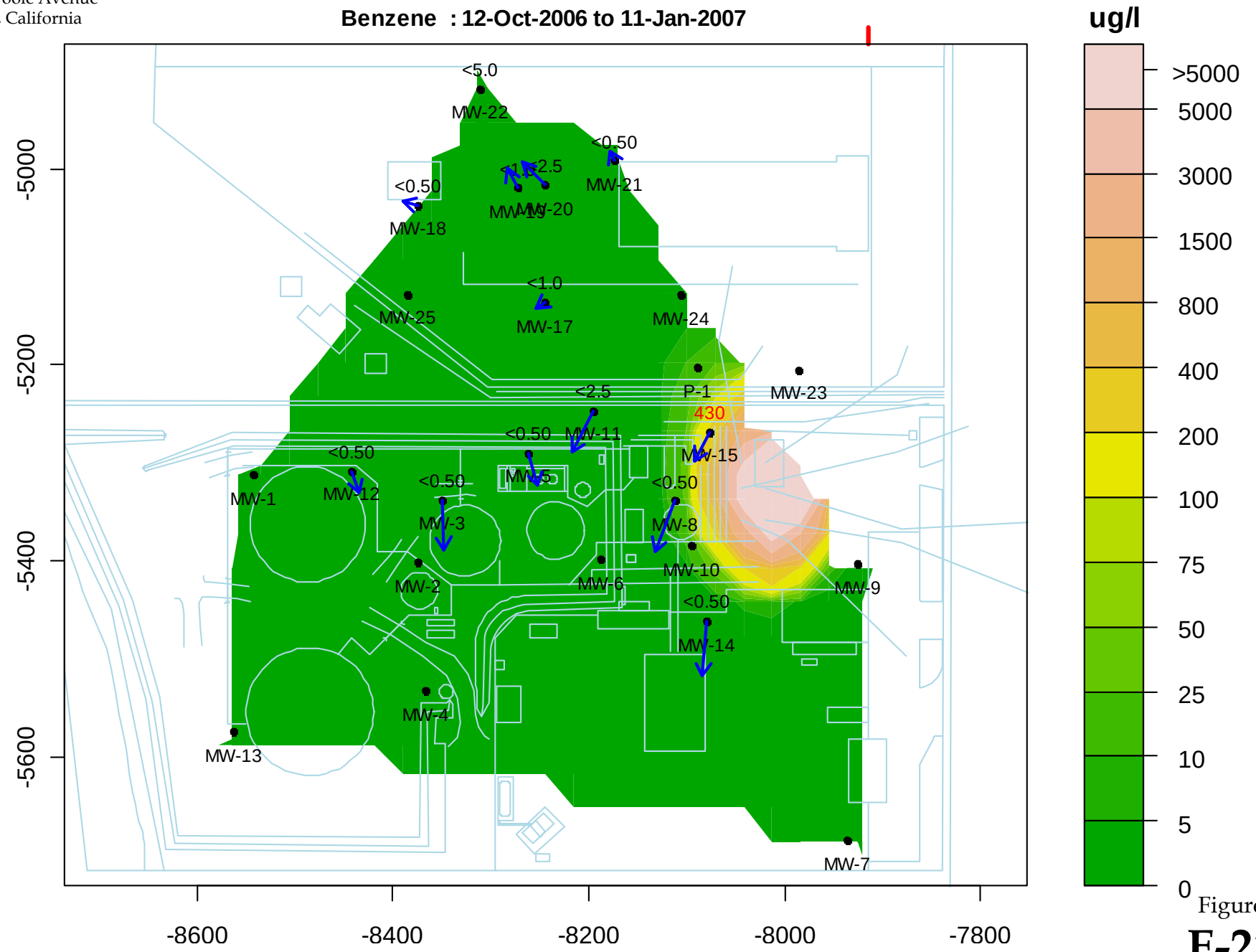


Figure
E-23

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

Benzene : 12-Oct-2007 to 11-Jan-2008

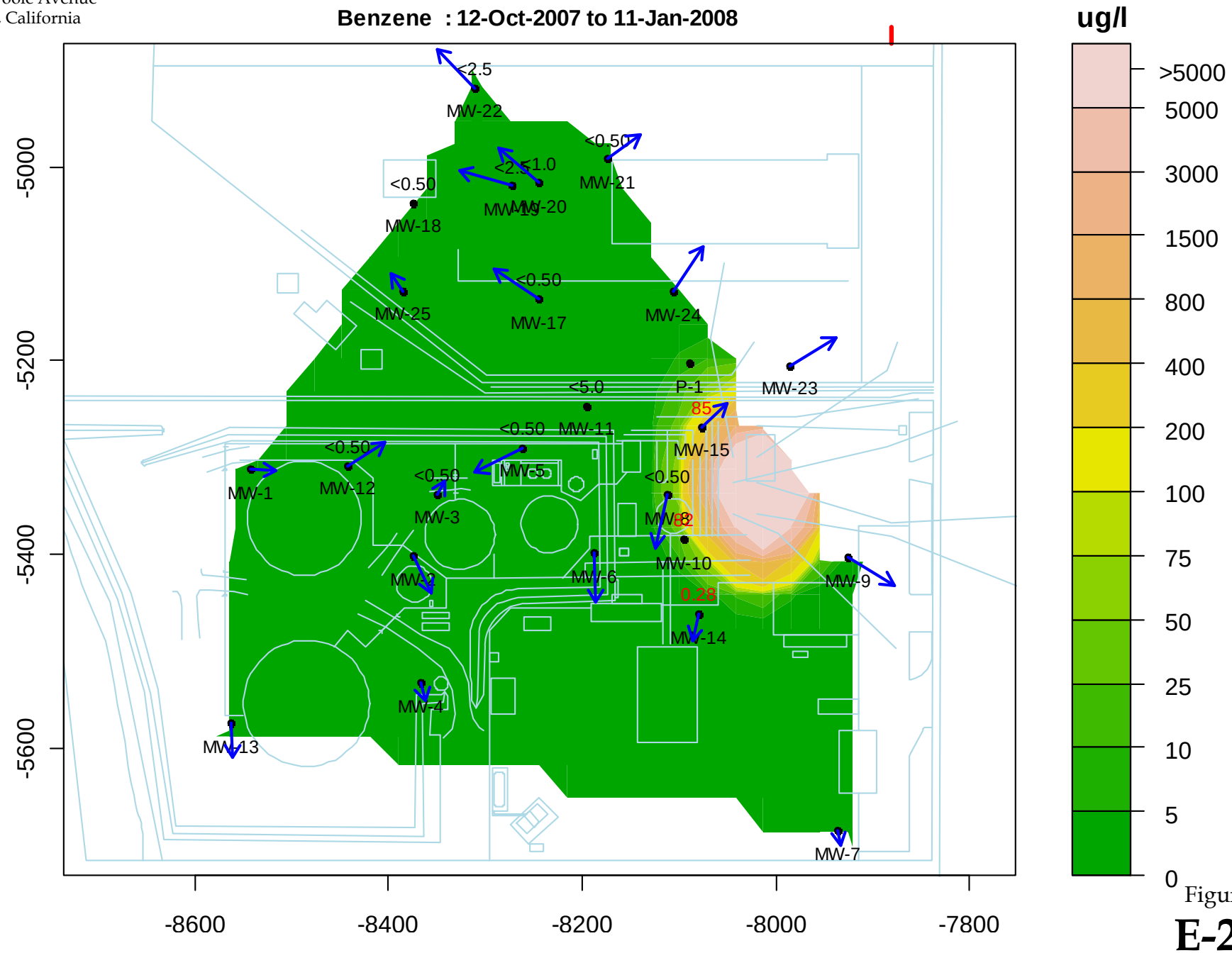


Figure
E-24

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

Benzene : 12-Oct-2008 to 11-Jan-2009

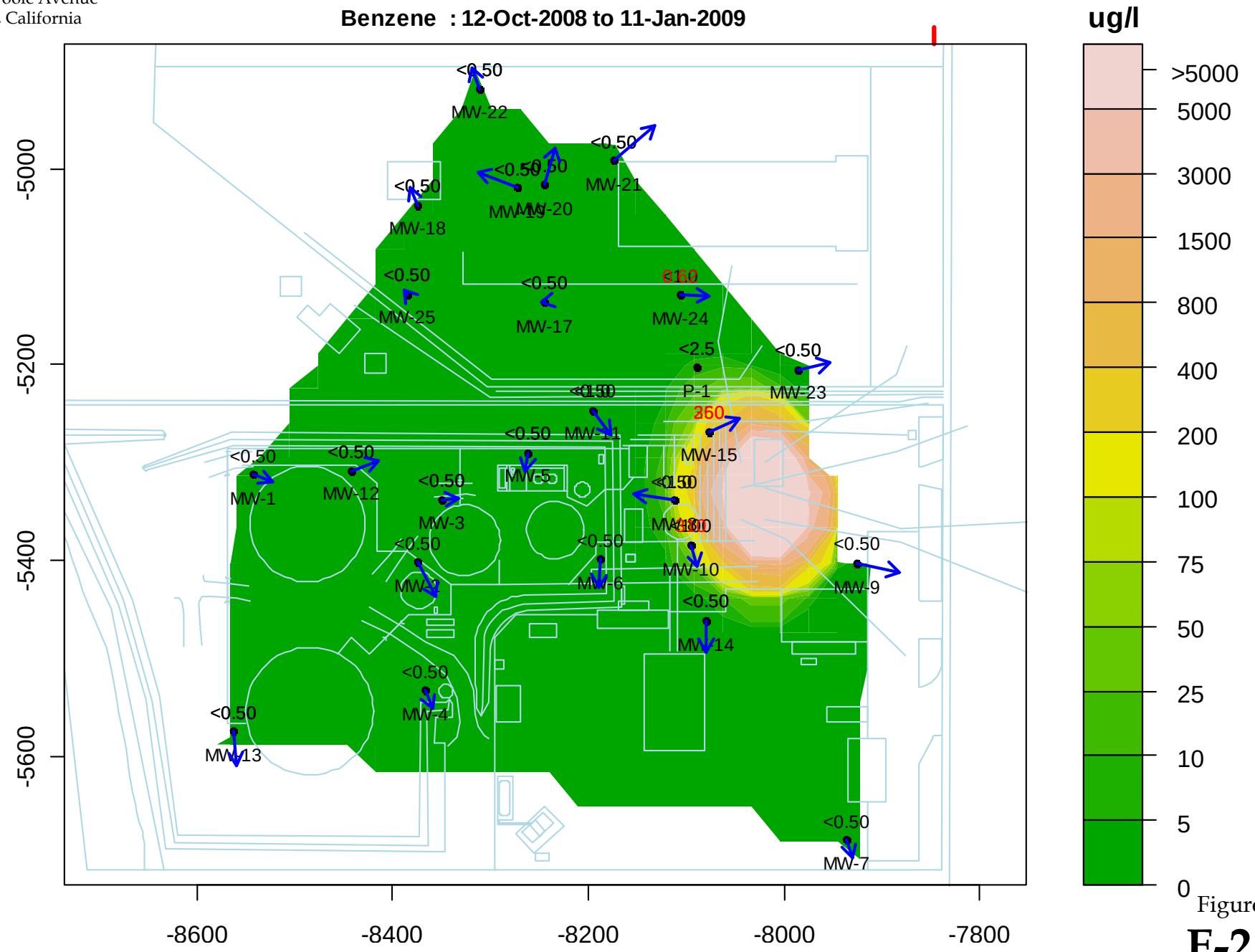


Figure
E-25

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

Benzene : 12-Oct-2009 to 11-Jan-2010

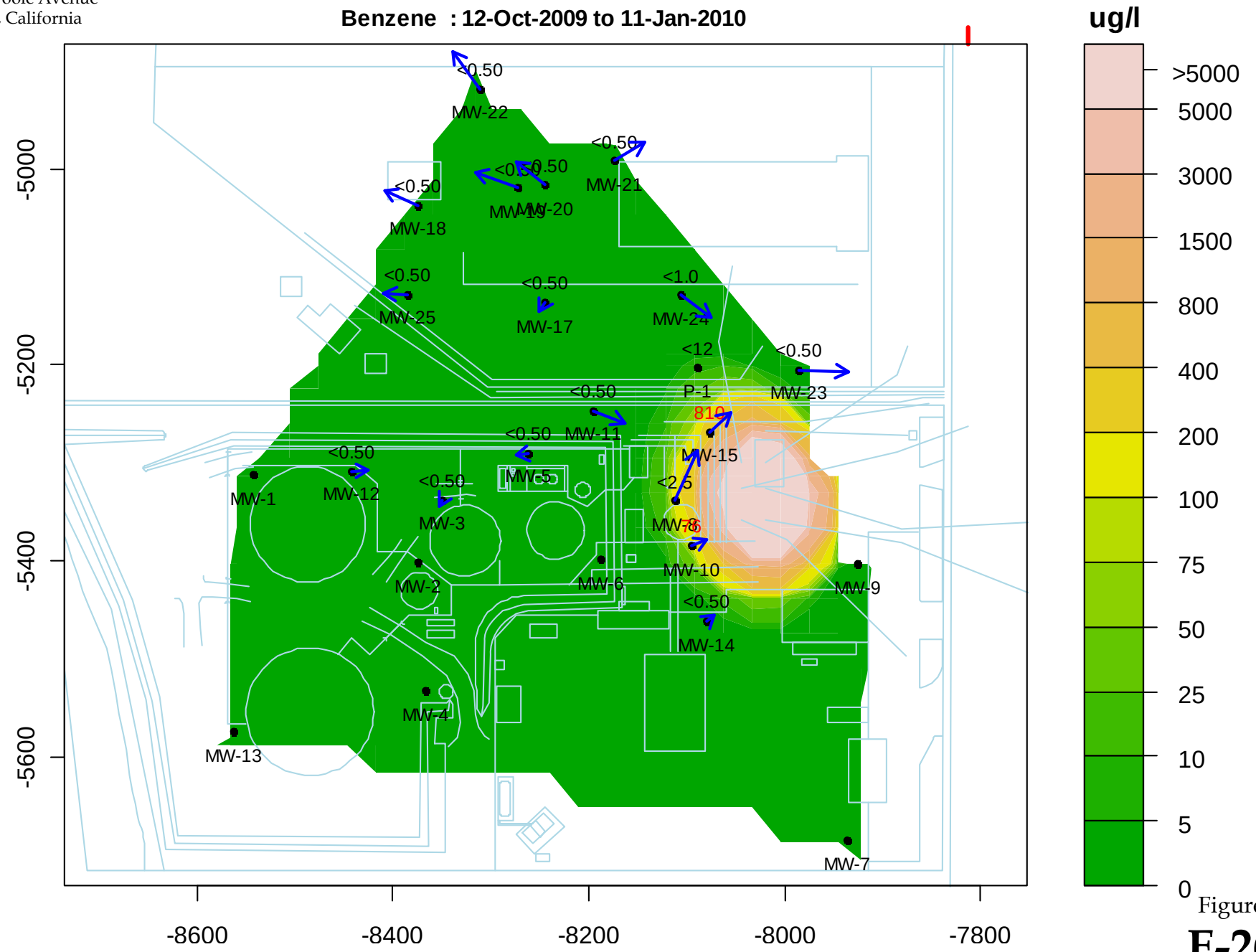


Figure
E-26

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

Benzene : 12-Oct-2010 to 11-Jan-2011

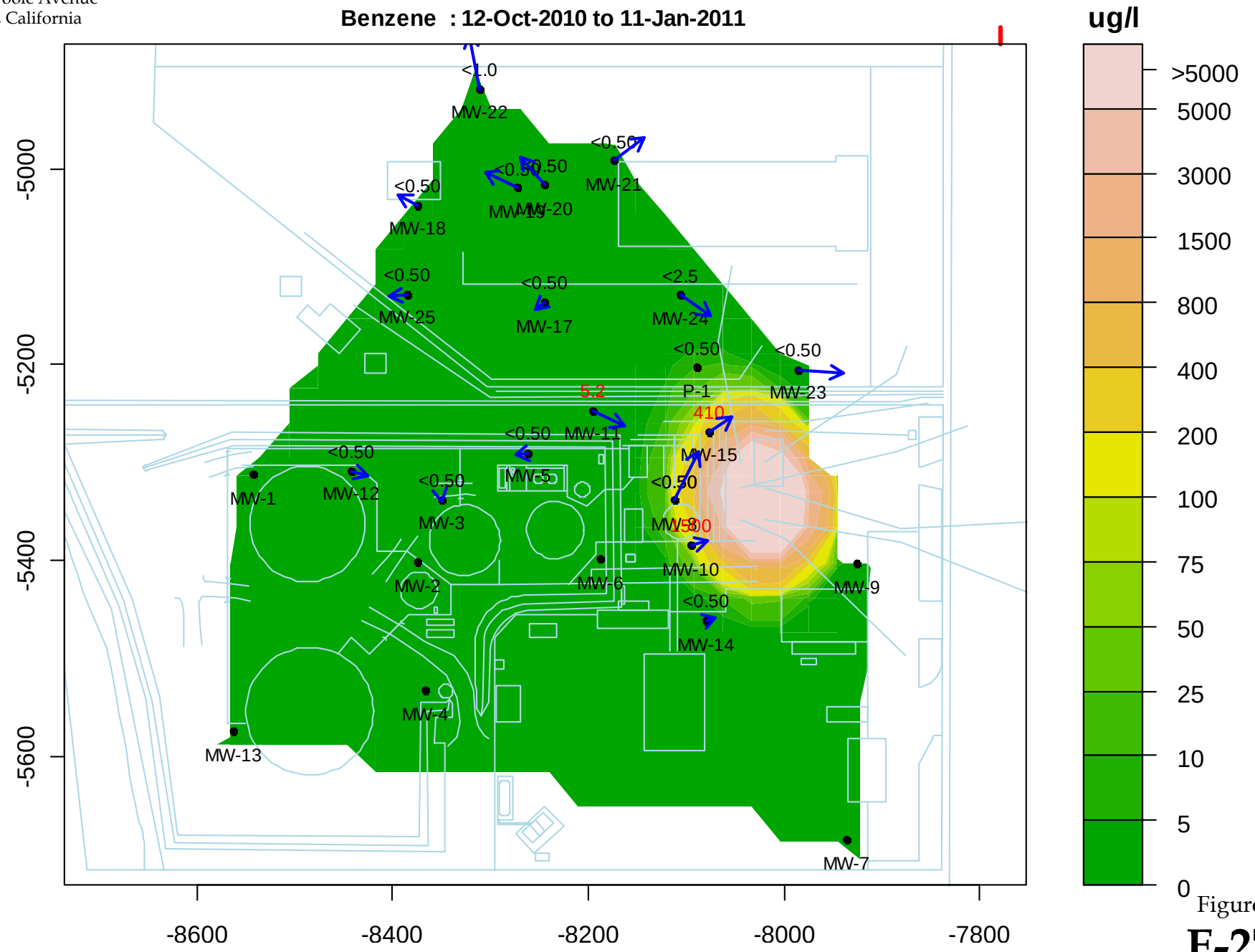


Figure
E-27

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

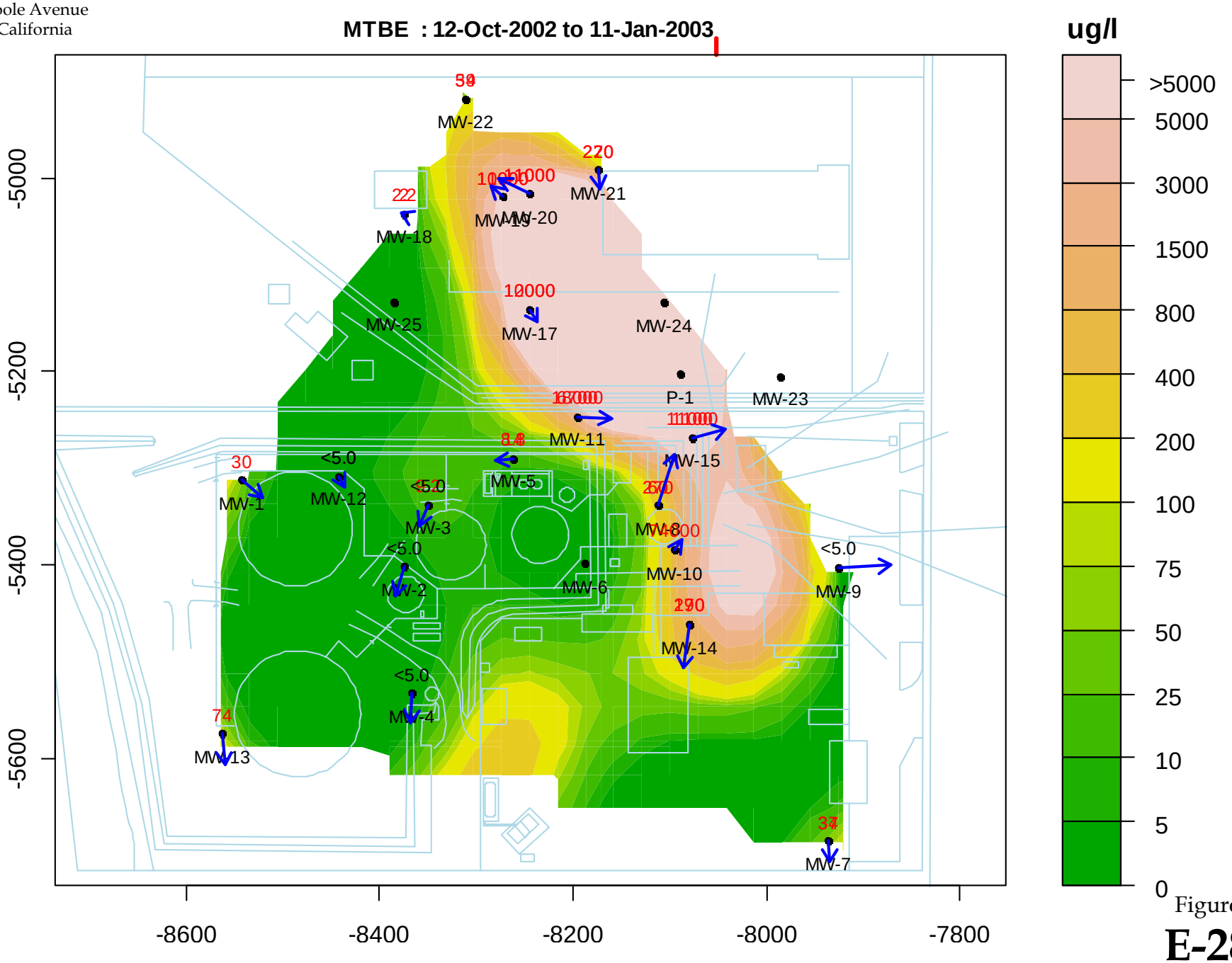


Figure
E-28

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

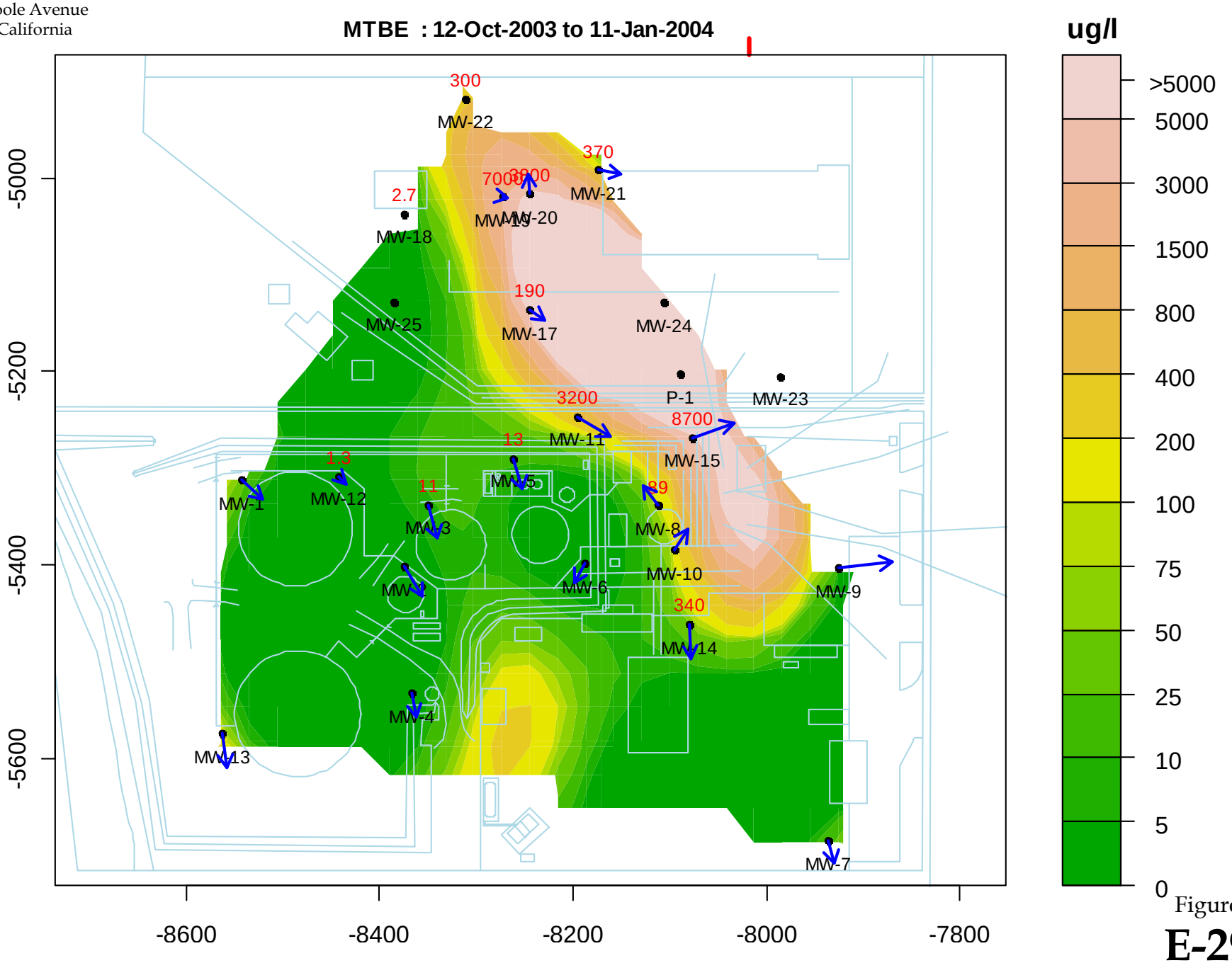


Figure
E-29

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

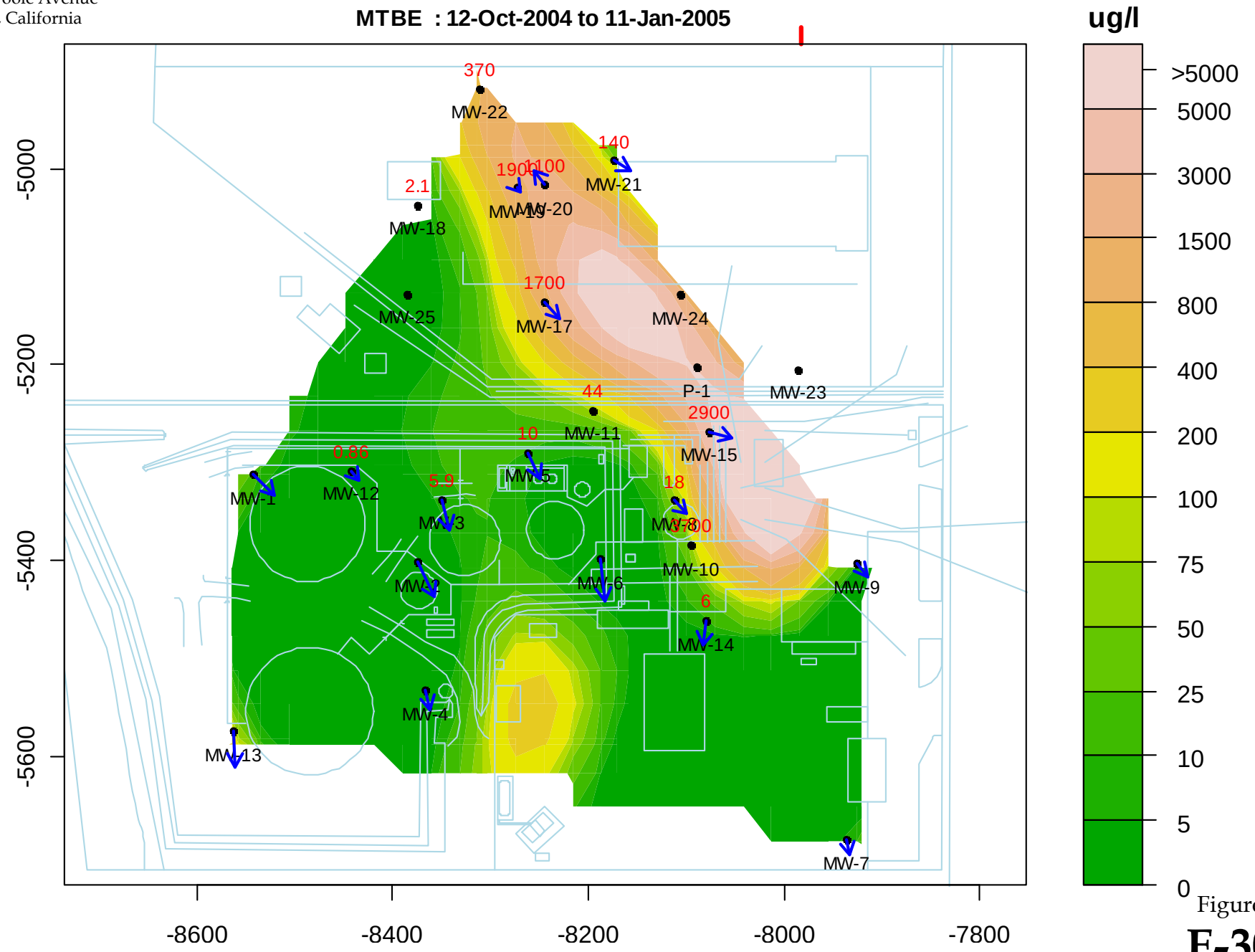


Figure
E-30

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

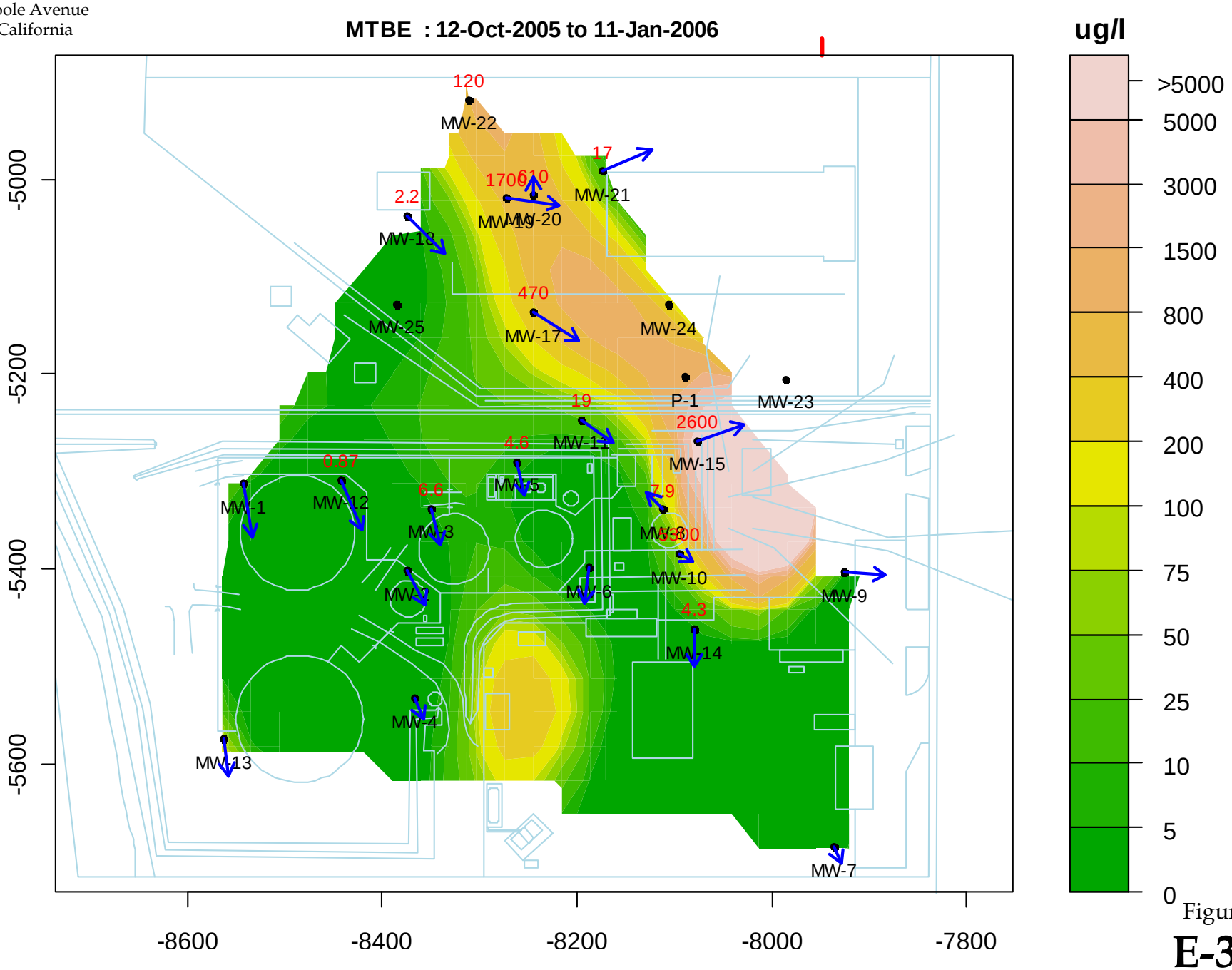


Figure
E-31

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

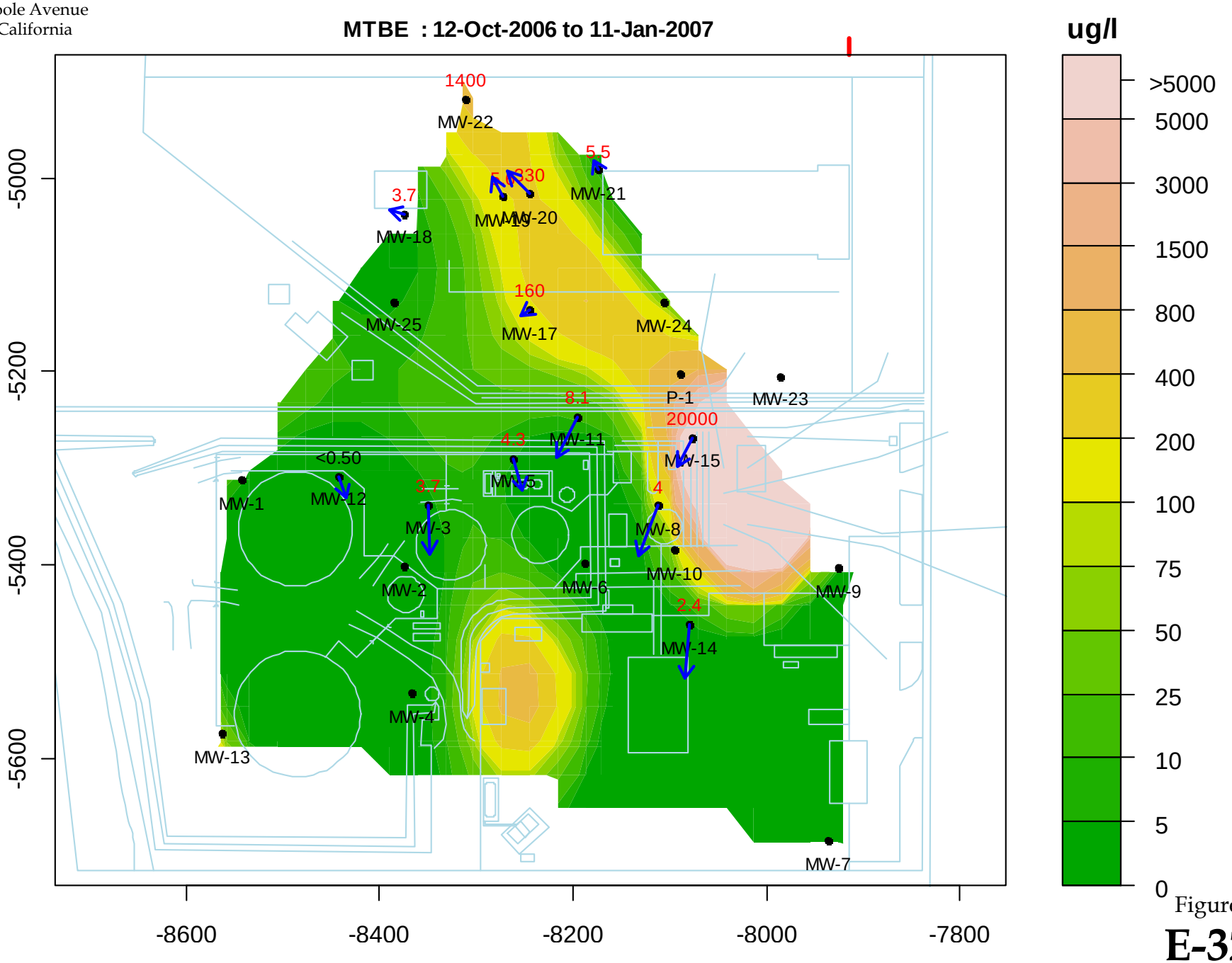


Figure
E-32

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

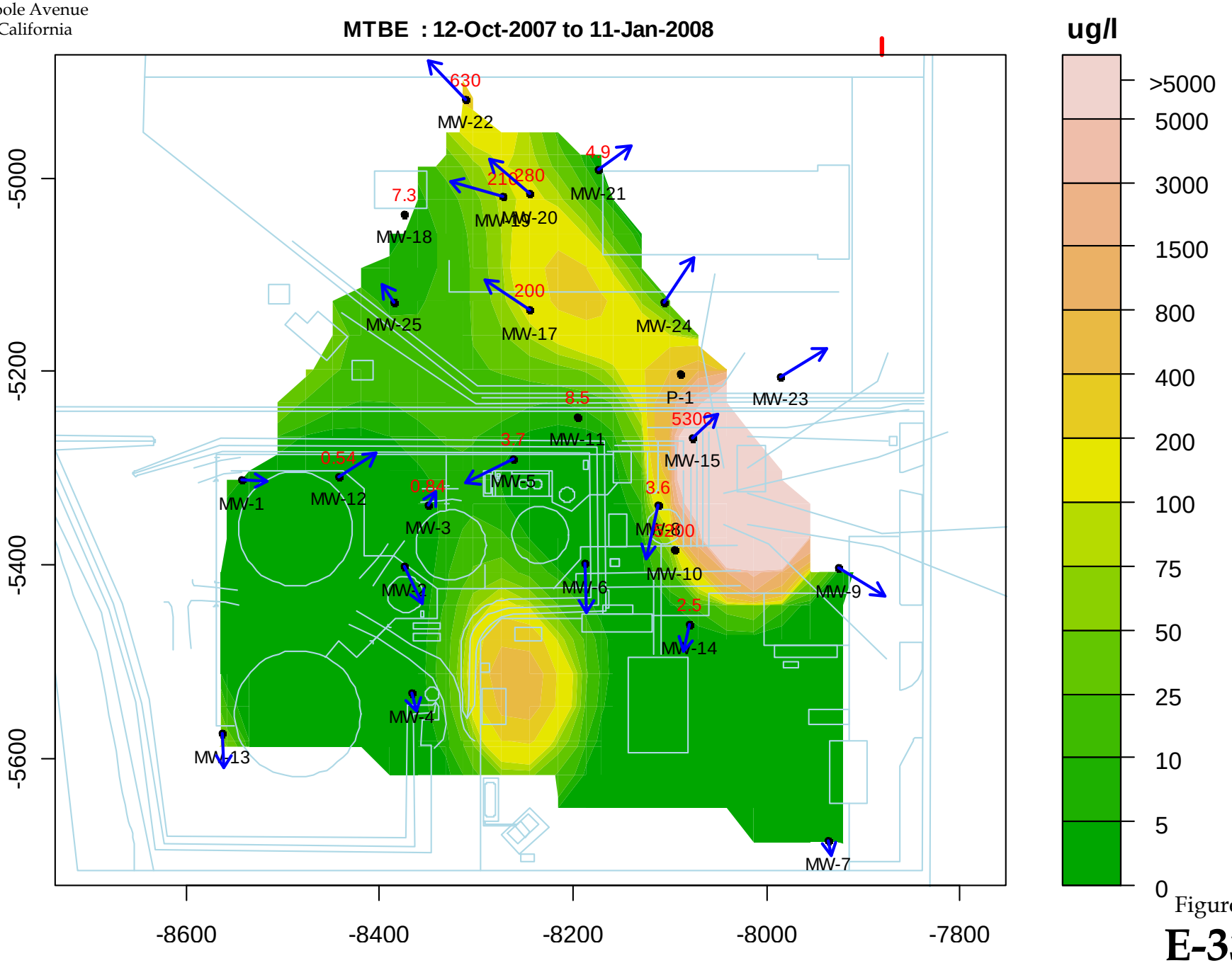


Figure
E-33

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

MTBE : 12-Oct-2008 to 11-Jan-2009

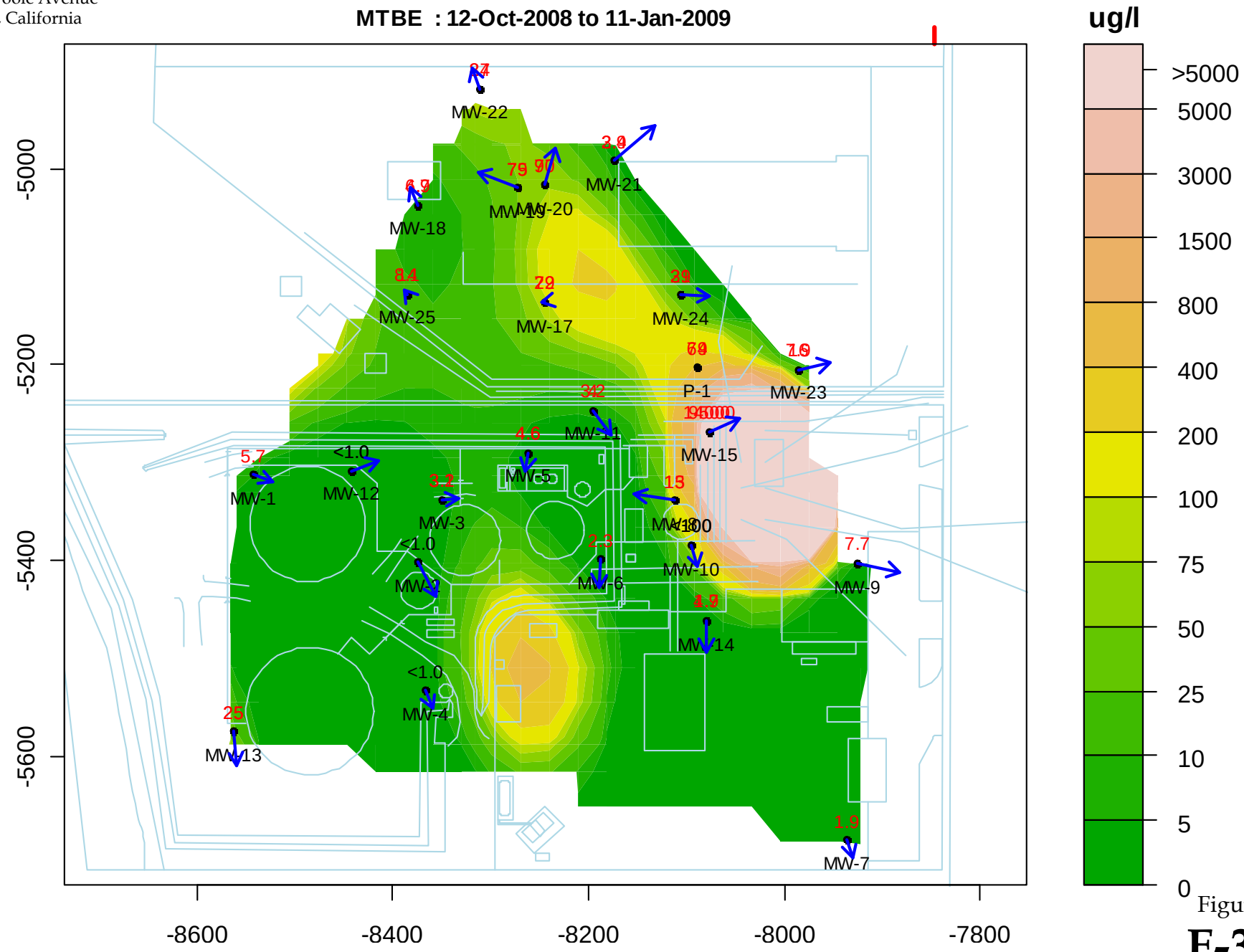


Figure
E-34

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

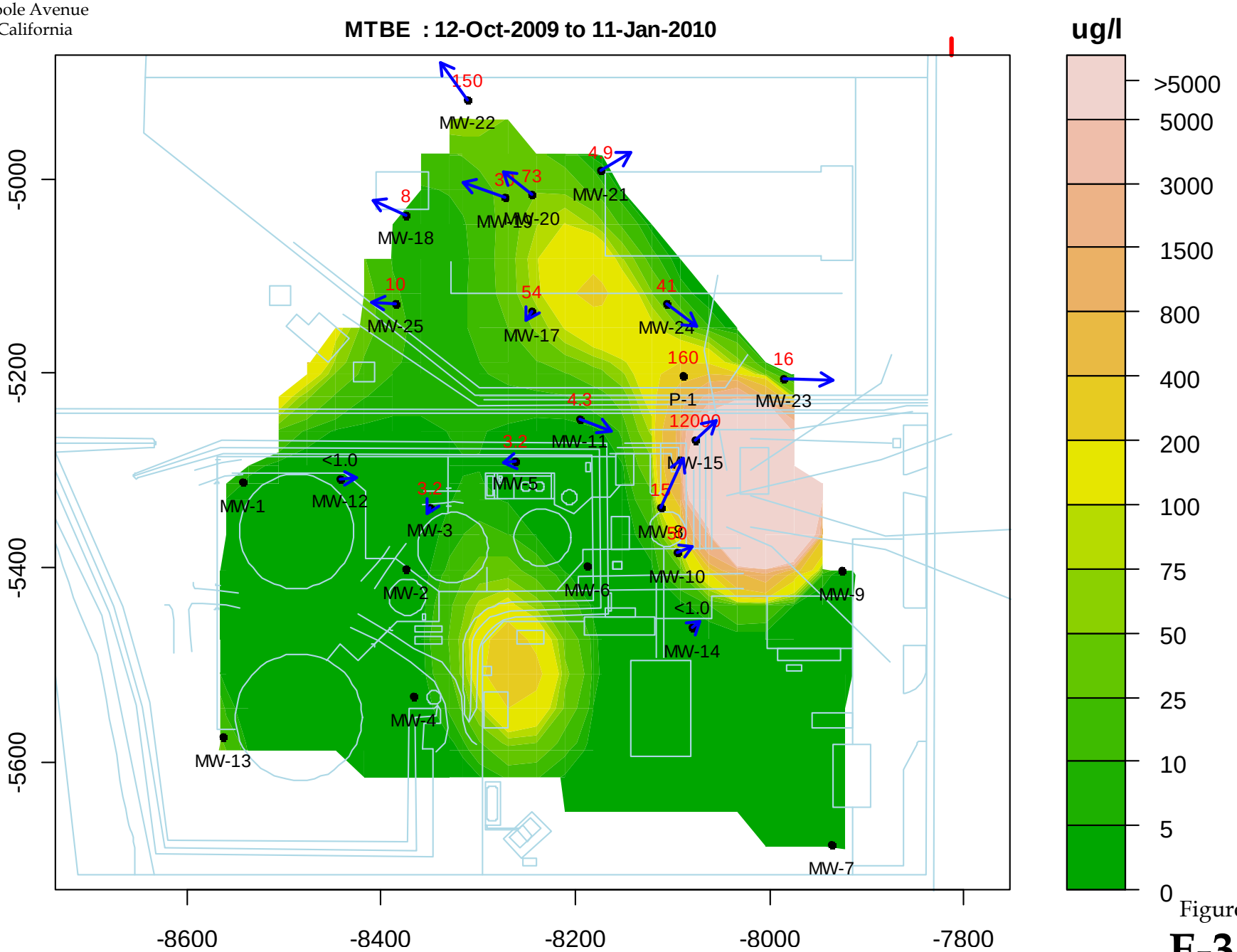


Figure
E-35

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

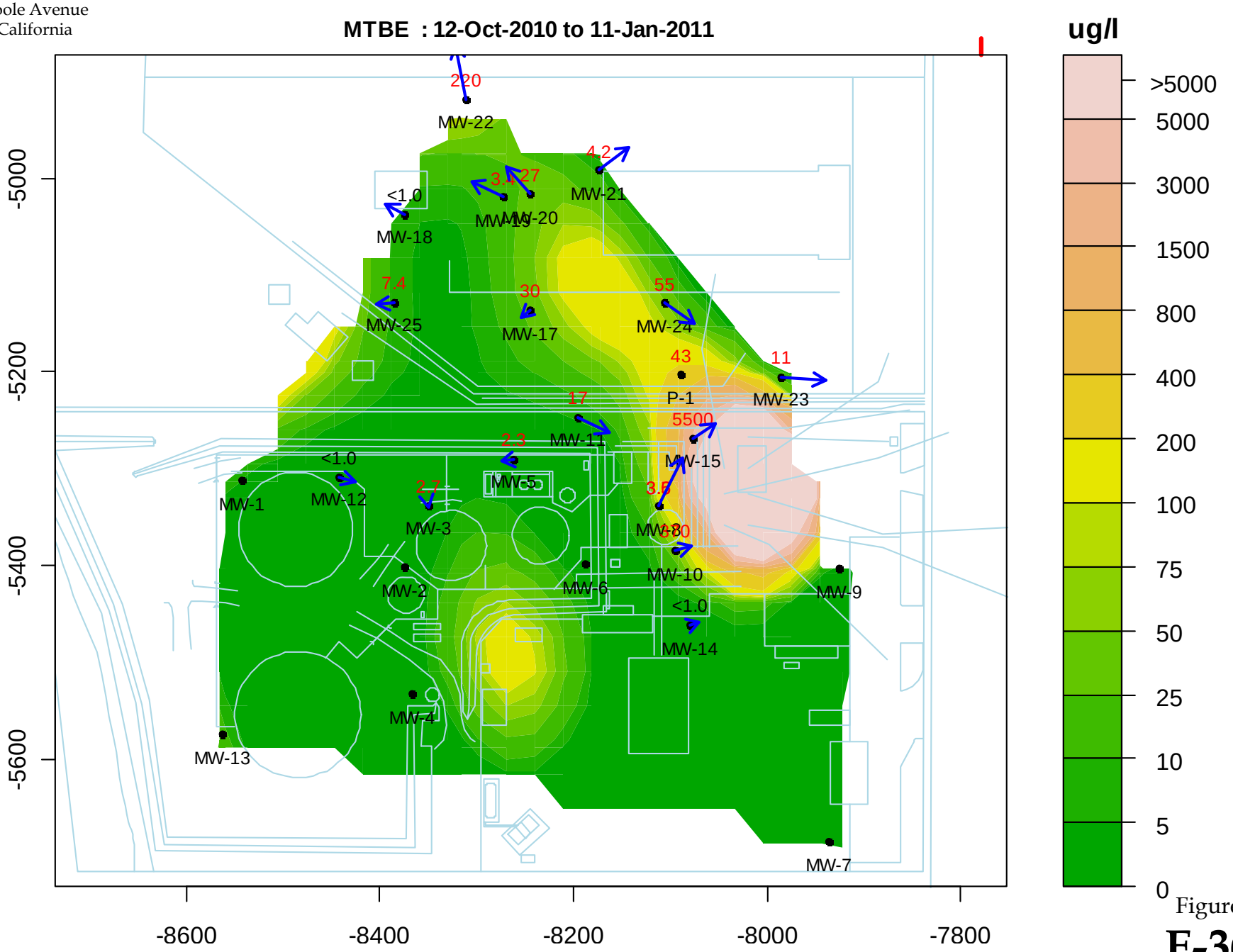


Figure
E-36

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

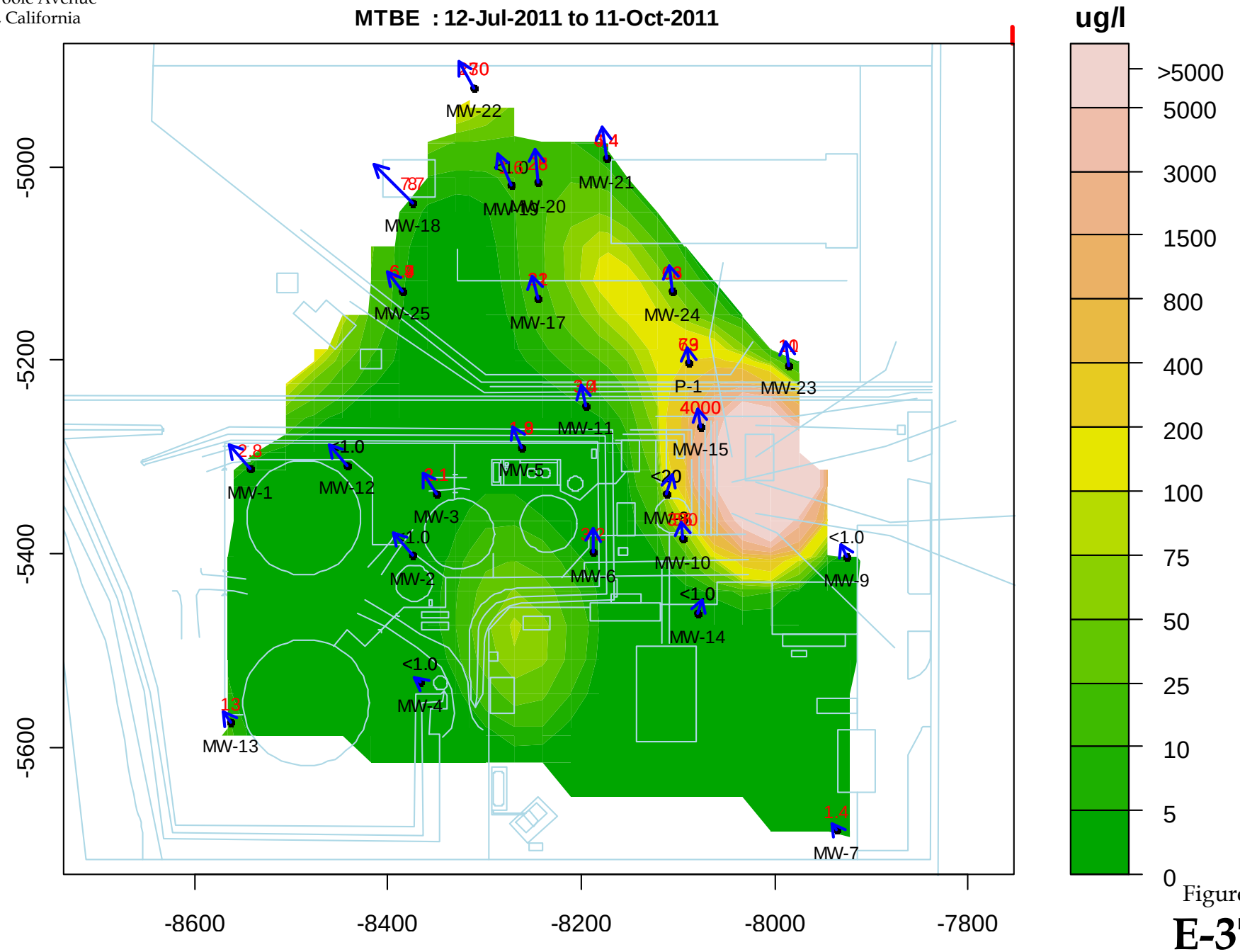


Figure
E-37

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

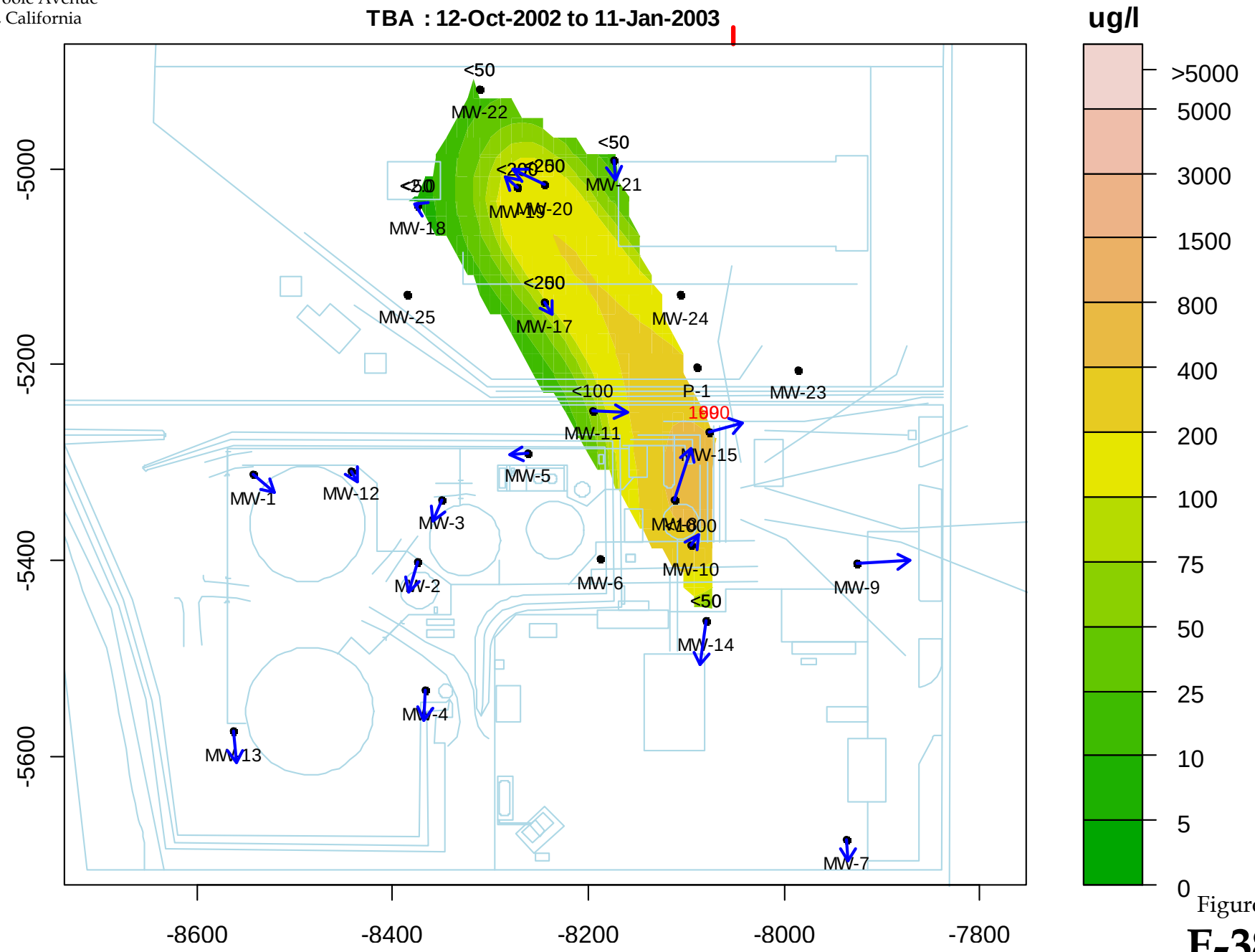


Figure
E-38

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

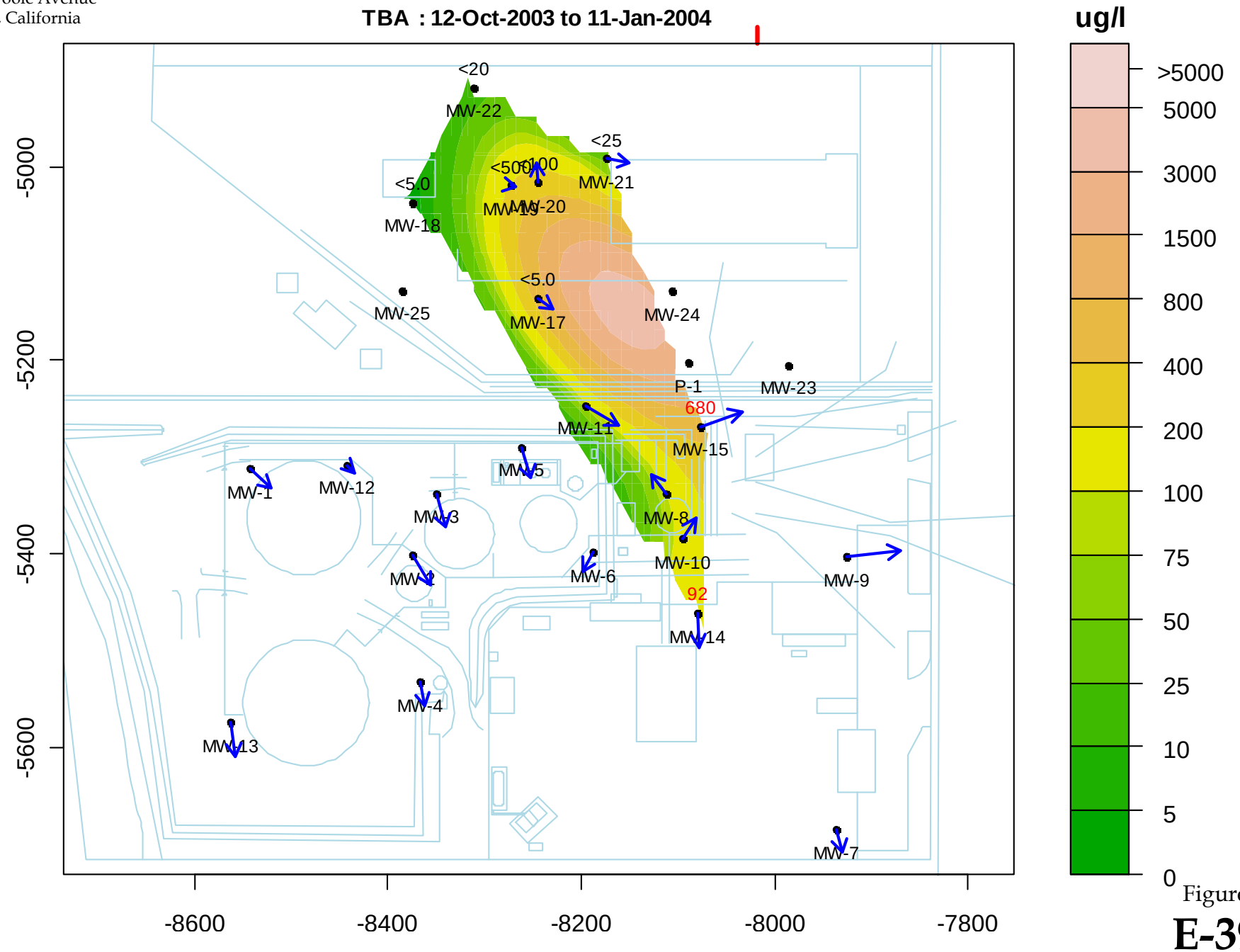


Figure
E-39

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

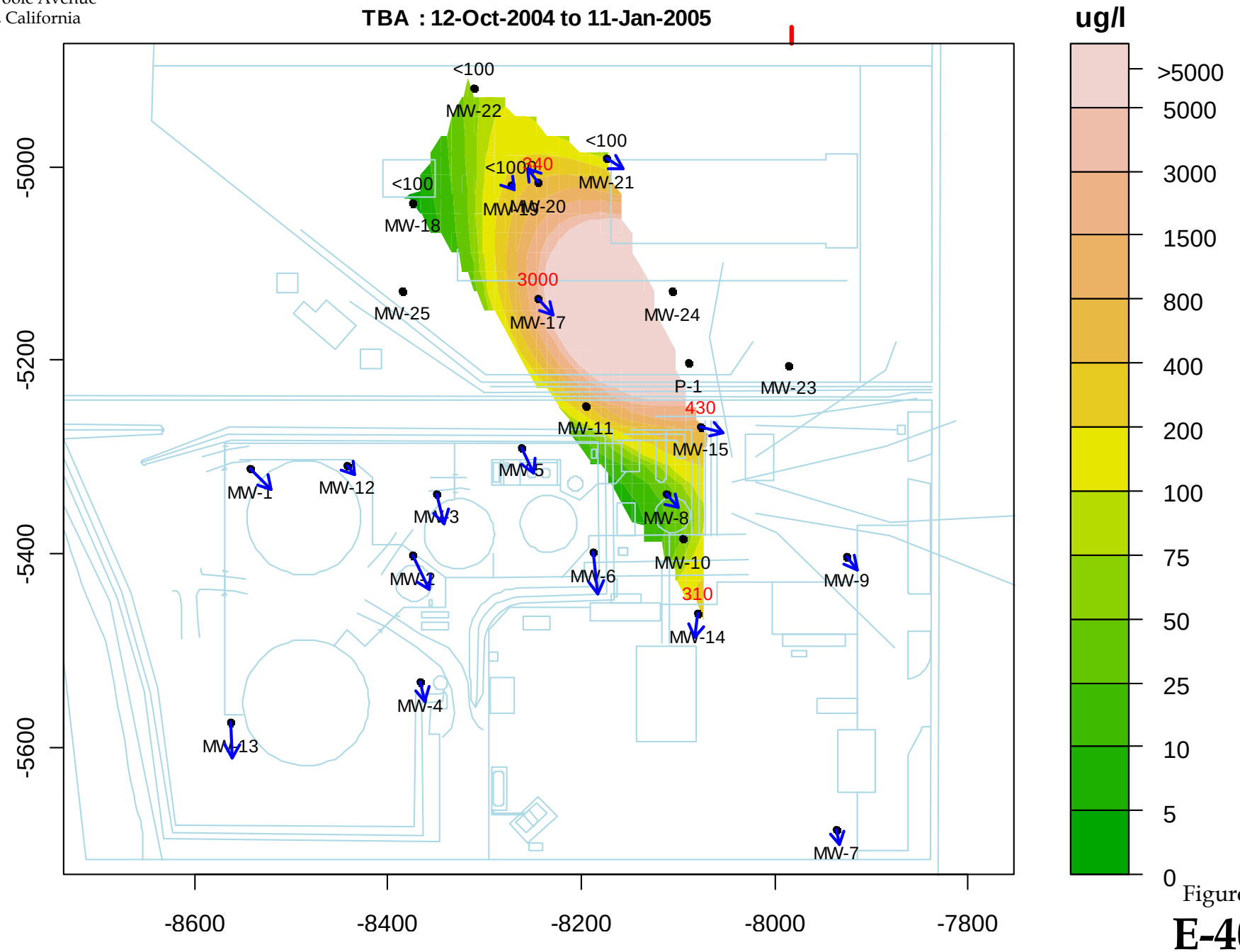


Figure
E-40

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

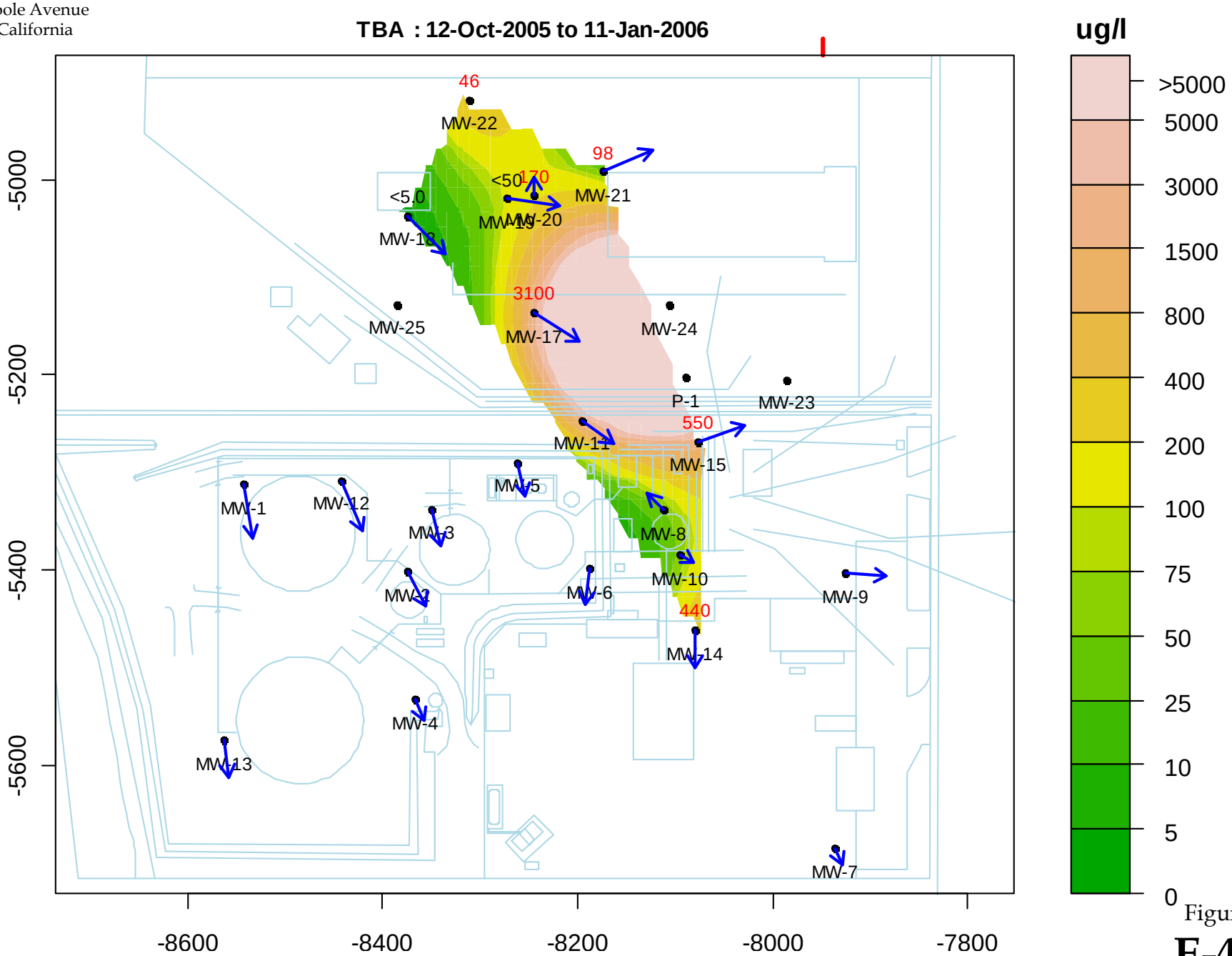


Figure
E-41

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

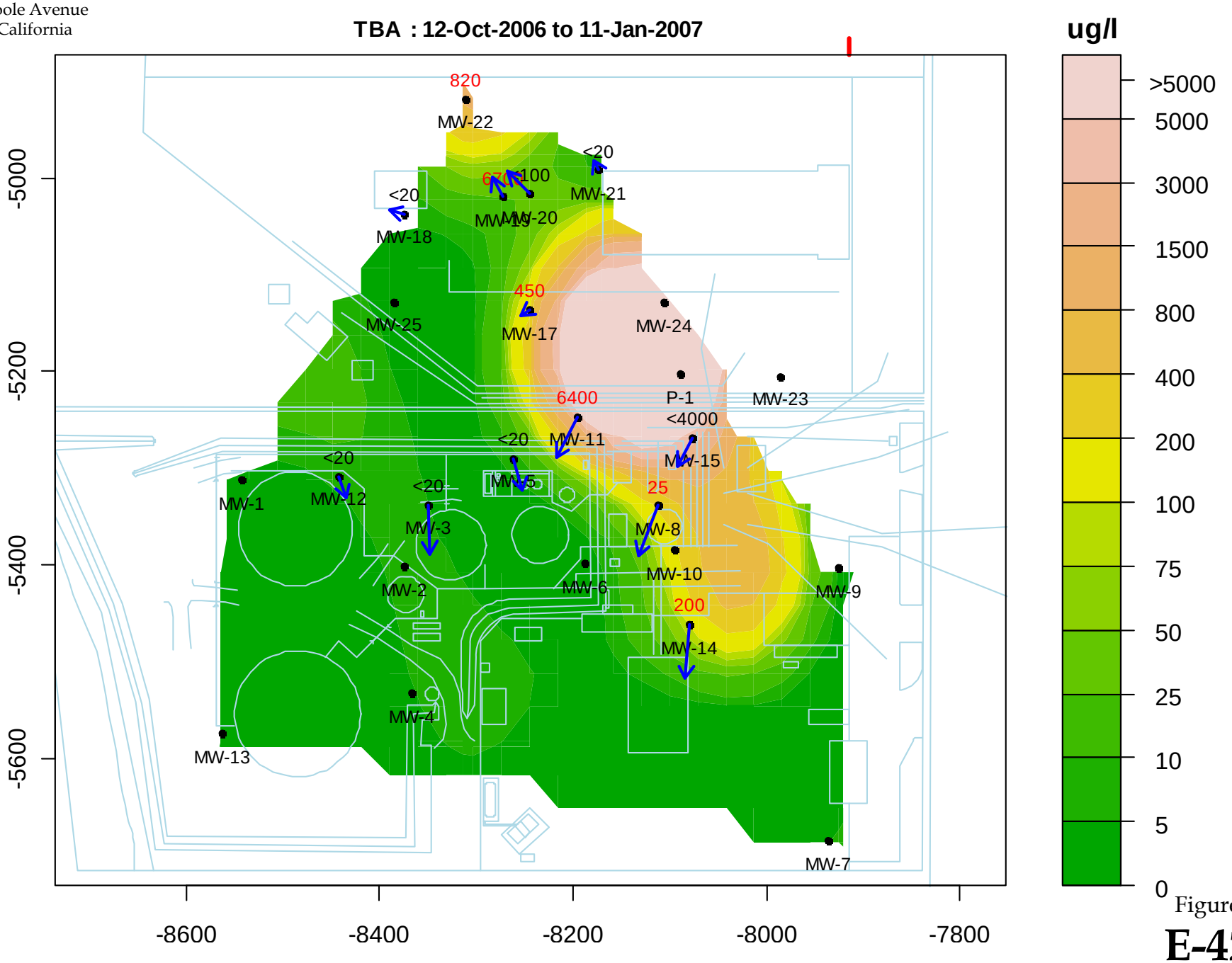


Figure
E-42

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

TBA : 12-Oct-2007 to 11-Jan-2008

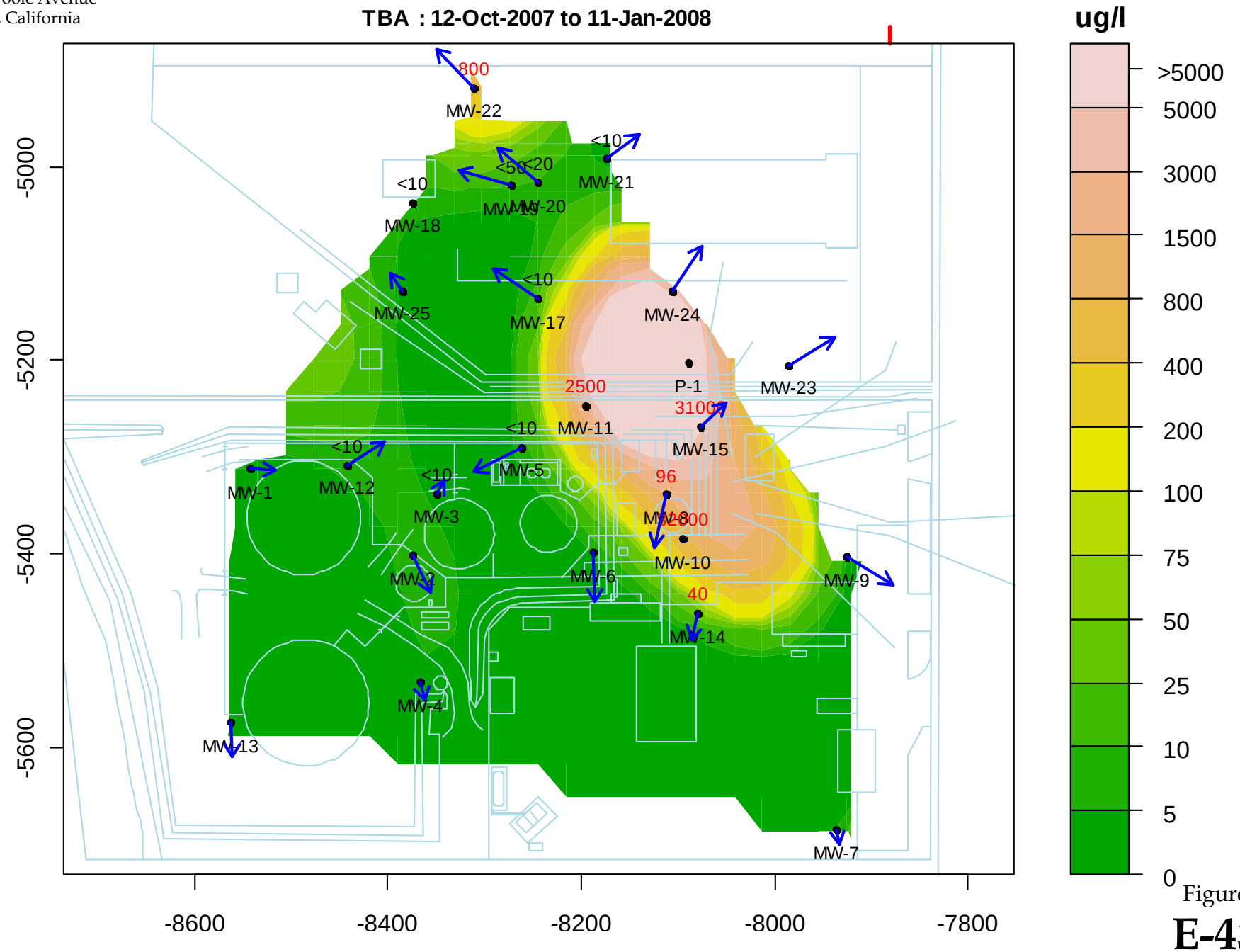


Figure
E-43

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

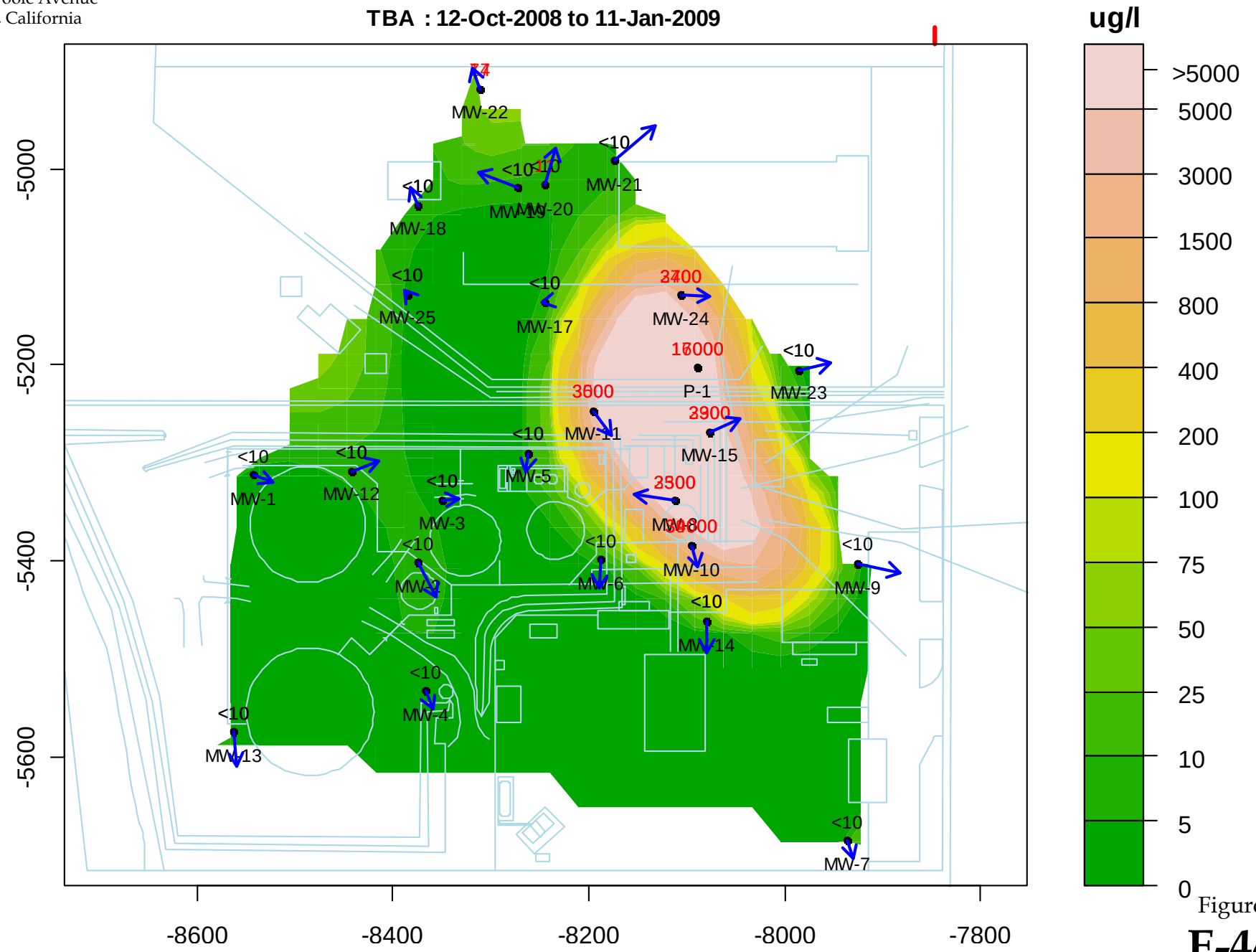


Figure
E-44

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

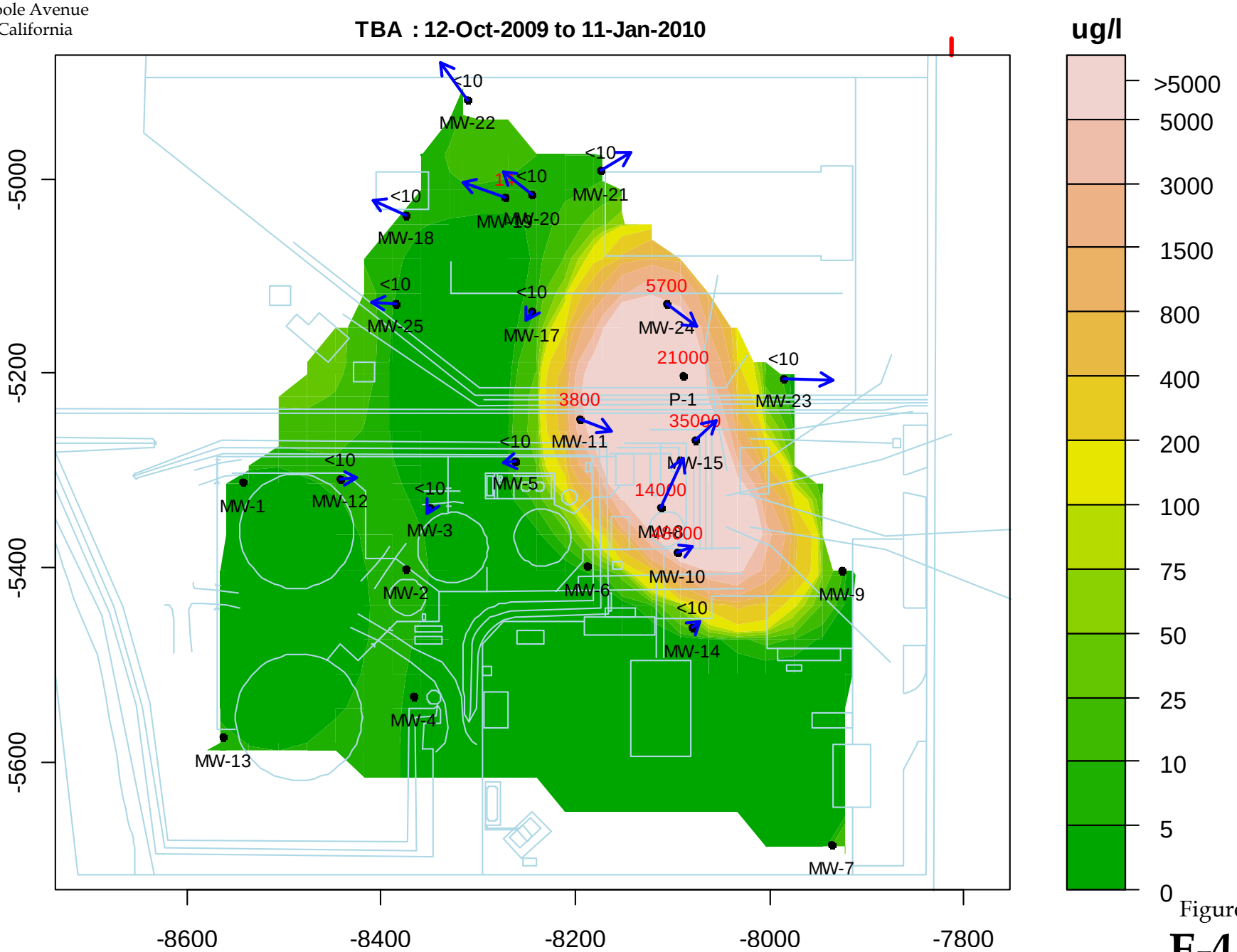


Figure
E-45

Shell San Jose Terminal
2165 O'Toole Avenue
San Jose, California

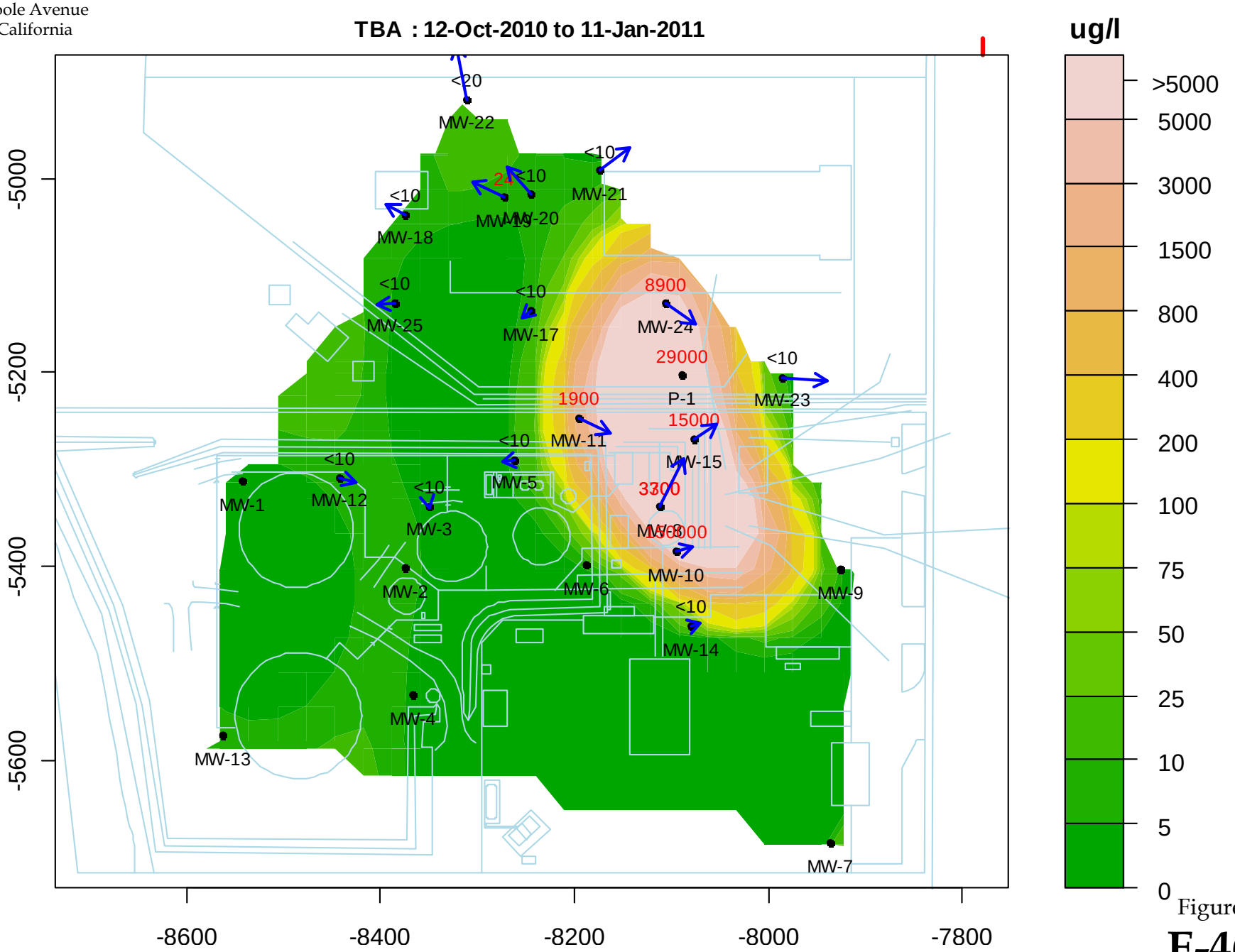


Figure
E-46