

December 22, 2010

RECEIVED

9:06 am, Dec 23, 2010

Alameda County
Environmental Health

Re: Updated Site Conceptual Model
Former Shell-Branded Service Station
15275 Washington Avenue
San Leandro, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US



Denis L. Brown
Project Manager

UPDATED SITE CONCEPTUAL MODEL
FORMER SHELL-BRANDED SERVICE STATION
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

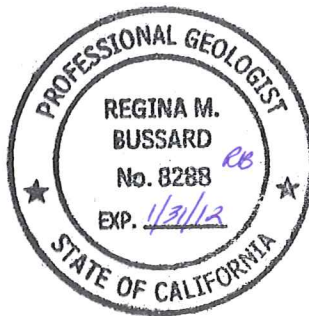
Prepared for:
Shell Oil Products US

Prepared by:
Delta Consultants
312 Piercy Road
San Jose, California 95138

December 22, 2010

Regina Bussard

Regina Bussard, P.G.
Professional Geologist



Suzanne McClurkin-Nelson

Suzanne McClurkin-Nelson
Senior Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 SITE LOCATION AND DESCRIPTION	2
2.1 SITE LOCATION.....	2
2.2 SITE DESCRIPTION	2
2.3 SITE OWNER	2
3.0 SITE SETTING	3
3.1 REGIONAL GEOLOGIC SETTING.....	3
3.2 REGIONAL HYDROGEOLOGIC SETTING	3
3.3 SITE HYDROGEOLOGIC CONDITIONS.....	3
4.0 NATURE AND EXTENT OF SOURCE	5
4.1 FORMER USTs (1985-1987).....	5
4.2 WASTE OIL TANK REMOVAL (1987)	5
4.3 UST REPLACEMENTS (1987).....	5
4.4 ADDITIONAL WELL INSTALLATIONS AND SOIL GAS SURVEY (1988-1989)	5
4.5 GROUNDWATER MONITORING DATA (1985 – 2010).....	5
4.6 SOIL GAS SURVEY (1997).....	6
4.7 SOIL GAS SURVEY (2008).....	6
4.8 GROUNDWATER SAMPLING PLAN (2009)	6
4.9 SOIL GAS SURVEY (2009).....	6
4.10 HORIZONTAL SVE WELL INSTALLATION AND PILOT TEST (2009).....	7
4.11 SOIL GAS WELL INSTALLATIONS (2009)	7
4.12 SOURCE MATERIAL ASSESSMENT WORK PLAN (2010)	7
4.13 SOIL GAS SAMPLING (2010).....	7
4.14 CONFIRMATION SOIL BORINGS (2010)	7
4.15 SOIL GAS SAMPLING (2010).....	8
4.16 RESIDUAL SOILS AS ON-GOING SOURCE	8
4.17 SUMMARY	9
5.0 FATE AND TRANSPORT CHARACTERISTICS.....	11
5.1 UNDERGROUND UTILITY CONDUITS	11
5.2 SOIL MIGRATION PATHWAYS	11
5.3 HYDROGEOLOGIC PATHWAYS	11
5.4 CONTAMINANT MIGRATION MODEL.....	11
5.5 CONCENTRATION TRENDS	12
6.0 SITE REMEDIATION.....	13
7.0 RISK-BASED CORRECTIVE ACTION EVALUATIONS.....	14
7.1 PREVIOUS RISK-BASED CORRECTIVE ACTION (RBCA) EVALUATION.....	14
7.2 ENVIRONMENTAL SCREENING LEVELS	14
7.3 DELTA 2008 RBCA TIER II ANALYSIS	15
7.4 CALCULATIONS OF SSTLS.....	16

7.5 SSTL EVALUATION 16

7.6 IMPACT TO DRINKING WATER SUPPLY WELLS 16

8.0 SENSITIVE RECEPTOR SURVEY17

8.1 RADIUS REPORT 17

8.2 EDR WELL SEARCH..... 18

8.3 WELL SEARCH..... 18

8.4 WEB-BASED RECEPTOR SEARCH..... 18

9.0 SUMMARY.....19

10.0 RECOMMENDATIONS20

11.0 LIMITATIONS.....21

12.0 REFERENCES22

LIST OF FIGURES

- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Aerial Photograph
- Figure 4 – Geologic Map

LIST OF TABLES

- Table 1 –Historic Soil Analytical Data
- Table 2 –Historic Well Concentrations

LIST OF APPENDICES

- Appendix A – Well Survey Data
- Appendix B – Boring Logs
- Appendix C – Hydrogeologic Cross-Sections
- Appendix D - Historic Groundwater Contour Maps
- Appendix E – Soil Analytical Data
- Appendix F – Soil Gas Analytical Data
- Appendix G – Third Quarter 2010 Groundwater Monitoring Data
- Appendix H – Contaminant Concentration Trends
- Appendix I – Remediation Data
- Appendix J– RBCA Risk Evaluation Studies

1.0 INTRODUCTION

Delta Consultants (Delta), on behalf of Shell Oil Products US (Shell) has prepared this updated Site Conceptual Model (SCM) for the former Shell-branded service station located at 15275 Washington Avenue, San Leandro, California (site) (Figure 1). This updated SCM references the SCM included as an attachment to the *Soil Vapor Investigation Report* issued by Delta on October 7, 2008. The SCM provides a working hypothesis regarding the current and future distribution of petroleum hydrocarbons detected in soil and groundwater beneath the site.

The key elements of the SCM are:

- Site Location and Description
- Regional Hydrogeologic Setting
- Nature and Extent of the Petroleum Hydrocarbon Source(s)
- Contaminant Fate and Transport Characteristics
- Site Remediation
- Potential Exposure Pathways
- Potential Receptors

2.0 SITE LOCATION AND DESCRIPTION

The following sections provide a description of the site and surrounding area.

2.1 Site Location

The subject site is located in the northwest corner of the intersection of Washington Avenue and Lewelling Boulevard in San Leandro, California. (Figures 1 and 2). The site is designated by Alameda County Environmental Health Services (ACEHS) as Fuel Leak Case No. RO0000372. The Geotracker Global ID is T0600101226.

2.2 Site Description

The subject site, formerly a Shell-branded service station, is currently an automotive emissions testing facility (Speedy Smog Check) and tire repair facility (Big O Tire). The surrounding area is a mix of residential (primarily multi-family units) and commercial properties (Figure 3). The site is bounded on the west by a mobile home park, on the south by Lewelling Boulevard, on the east by Washington Avenue, and on the north by commercial buildings. An ARCO service station is located on the southwest corner of the intersection and is an open leaking underground fuel tank (LUFT) case.

2.3 Site Owner

The site property is currently owned by Mr. Frank Salel, Salel Enterprises, and is in care of Matthew Widener. The property is managed by Evans Management Services located at 871 38th Avenue, Santa Cruz, California 95062.

3.0 SITE GEOLOGIC/HYDROGEOLOGIC SETTING

3.1 Regional Geologic Setting

The site is located within the East Bay Plain Subbasin approximately two miles east of the edge of San Francisco Bay. (Figure 4). The East Bay Plain Subbasin is a northwest trending alluvial plain between foothills to the east and San Francisco Bay to the west. As mapped by E.J. Helley and others (1979), soils in the site vicinity consist of unconsolidated, irregularly interbedded clay, silt, sand, and gravel of Pleistocene and Holocene formations. Sediments become finer-grained near the edge of San Francisco Bay. A geologic map of the site vicinity is presented on Figure 4.

3.2 Regional Hydrogeologic Setting

The site is located in the central portion of the East Bay Plain Subbasin (Department of Water Resources [DWR] Bulletin 118). The East Bay Plain Subbasin aquifer system consists of unconsolidated sediments of Quaternary age with a cumulative thickness of approximately 1,000 feet (CRWQCB, 1999). Shallow aquifers are recharged by numerous creeks crossing the subbasin in a east-west or westward direction. Locally, streams discharge to San Francisco Bay. The total depth of domestic wells ranges from 32 to 525 feet below the ground surface (bgs) with an average of 206 feet bgs. Total depth of municipal and irrigation wells range from 29 to 630 feet bgs with an average of 191 feet bgs (DWR Bulletin 118). Groundwater flow is typically to the west toward San Francisco Bay. Water agencies in the area that actively monitor groundwater include East Bay Municipal Utility District (East Bay MUD) and Alameda County Flood Control and Water Conservation District.

A well survey conducted by Emcon in 1987 was updated by Enviro in April 1995 with similar results; no sensitive wells were identified within a half-mile radius of the site (Enviro, 1997). Delta performed a well survey in 2005 and TRC completed a well survey of the site area in 2006; in addition, Toxichem Management Systems, Inc. published a well survey map sometime after 2004 (date of issue unknown). The TRC survey identified 39 wells within approximately ½-mile radius of the site; 29 wells were classified as “irrigation”, six as “domestic”, one as “cathodic”, and three were of unknown use. The depth of irrigation wells ranged from 34 feet to 720 feet bgs; the depth of domestic wells ranged from 28 feet to 84 feet bgs. No municipal water supply wells were identified within the search radius. Historic well survey data are included as Appendix A.

3.3 Site Hydrogeologic Conditions

Sediments observed in borings consisted primarily of clay and silty clay to depths of approximately 25 feet bgs, with some samples containing fractures and root holes. Interbedded layers of silty sand and clayey sand were identified in borings S-2 through S-5 at depths of approximately 4 to 8 feet bgs, and in borings S-A through S-D to 12 feet bgs. Borings S-6 through S-19 also reported clay to total depths of between 20 and 25 feet bgs with shallow discontinuous interbeds of sand. Beneath the clay, silty sand and sand was encountered from approximately 25 feet to 40.5 feet bgs, the total depth explored. Confirmation soil borings SB-1 through SB-14 advanced in 2010 generally conformed to hydrogeologic conditions noted in earlier borings for various locations; two deeper borings (SB-2 and SB-3) reported alternating beds of clay and sand to 50 feet bgs. Copies of boring logs and well construction diagrams are provided as Appendix B. Hydrogeologic cross-sections are included as Appendix C.

Groundwater was first encountered in soil borings at depths ranging from approximately 4 to 20 feet bgs within clay deposits. Static groundwater is typically measured between 5 and 8 feet bgs. Enviro in 1997 concluded “the upper water-bearing zone appears to extend to a depth of approximately 6 feet to 20 feet bgs”. Water in this upper zone is most likely yielded from the discreet sandy interbeds and possibly from silty horizons in the predominantly clayey (CL and CH) matrix.” All groundwater monitoring wells are screened in this upper groundwater zone. Groundwater monitoring well construction information is contained in Appendix B.

Groundwater flow is predominantly to the west-southwest. Copies of selected groundwater contour maps are included in Appendix D. A step-test was performed at the site on March 27, 1990 using well SR-1. The well

dewatered after 52 minutes of pumping at a rate of 2 gallons per minute. Slug tests were performed in wells S-1, S-3, S-5, S-7, S-9, S-13, S-14, and S-16. Analysis of the slug test data indicated coefficient of permeability values ranging from 7.27 to 99.9 feet per day. GeoStrategies, Inc. (GSI) concluded “The wide range in values are most likely attributed to the heterogeneity of the clay (especially the complexity of the interbedded sandy horizons) in the subsurface as well as inherent well construction difficulties in low-permeable, fine grained aquifers where classic well design procedures fail” (GSI, 1990).

4.0 NATURE AND EXTENT OF SOURCE

The following sections describe the source(s) of the petroleum hydrocarbons that have been detected in soil and groundwater beneath and adjacent to the site.

4.1 Former USTs (1985-1987)

Elevated concentrations of total petroleum hydrocarbons as gasoline (TPH-g) were detected in groundwater in the first site groundwater monitoring wells installed in August 1985 (S-1 through S-4, Figure 2). Separate phase hydrocarbons (SPH) were detected in well S-3 (0.5 foot). Well S-3 was located west and downgradient of the site underground fuel storage tanks (USTs). In 1986, four borings (S-A through S-D) were drilled to obtain soil and groundwater samples in areas of potential petroleum hydrocarbons; waste oil tank (S-A) and USTs (S-B, SB-C, S-D, see attached figure in Appendix E). TPH-g was detected in the tank pit backfill at 1,700 milligrams per kilogram (mg/kg) and at the bottom of tank pit at 1,500 mg/kg (boring S-B). Soil analytical data are provided as Appendix E. Boring S-B was converted to a groundwater monitoring well. SPH (0.4 foot) was detected in well S-B. Wells S-B, S-2, and S-4 were destroyed in May 1987 during on-site construction activities.

4.2 Waste Oil Tank Replacement (1987)

The site waste oil tank was removed and replaced with a double-walled tank in June 1987. Soils were over-excavated to a depth of approximately 13 feet bgs and approximately 2 to 4 feet beyond the dimensions of the tank. Soil samples collected from beneath the waste oil tank contained 280 mg/kg TPH-g and 14 mg/kg benzene. The soil samples did not report measurable concentrations of total petroleum hydrocarbons as diesel (TPH-d) or any other volatile organic compounds (VOCs).

4.3 UST Replacements (1987)

The four fuel USTs were removed in June 1987 (Figure 2). A total of four soil samples were collected from the tank pit walls (Samples A through D). With the exception of sample D, which reported TPH-g at a concentration of 910 mg/kg, all other soil samples contained less than 100 mg/kg TPH-g (Kaprelian, 1987). Over-excavation was not practical due to the presence of underground utilities; approximately 500 cubic yards of material were removed from the site, and an additional 200 cubic yards were removed from trenches in the dispenser areas.

In 1987, three trenches were excavated away from the former tank pit area. The trenches were dug to a depth of approximately 8.5 feet bgs. TPH-g was detected in soil samples at from 100 mg/kg to 730 mg/kg (Kaprelian, 1987). Maps and soil data are included as Appendix E.

4.4 Additional Well Installations and Soil Gas Survey (1988-1991)

On October 4, 1988 a soil gas survey was performed by Tracer Research Corporation at fifteen offsite locations on Lewelling Boulevard and at the adjacent mobile home park (GSI, 1989), and seven monitoring wells (S-6 through S-12) were installed in November 1988 (Figure 2). Delta was unable to obtain the original sample results; a soil gas survey contour map appended to a groundwater monitoring report indicated soil gas samples reported TPH-g at concentrations ranging from 0.63 micrograms per liter (mg/L) to 5,800 mg/L, with highest concentrations in Lewelling Boulevard south of the site; the soil gas survey contour map is included as Appendix F. Groundwater samples collected from wells S-1 through S-12 reported TPH-g at concentrations ranging from 50 micrograms per liter ($\mu\text{g/L}$) to 70,000 $\mu\text{g/L}$ (S-3). In March 1989, groundwater monitoring wells S-13 through S-17 and recovery well SR-1 were installed, and well S-18 was installed in 1991 (Figure 2).

4.5 Groundwater Monitoring Data (1985 – 2010)

Groundwater monitoring reports dating back to 1985 indicate that levels of petroleum hydrocarbons have declined steadily over time due to natural attenuation and soil vapor extraction, with the exception of well S-9. Historically, the highest concentrations of TPH-g have been detected in groundwater samples from wells S-3 and S-5, located adjacent to the former fuel USTs and dispenser island, and S-9 in the down

gradient area to the west. TPH-g was greater than 10,000 µg/L in well S-3 from its installation in 1985 through January 2003. TPH-g concentrations persist in well S-9; the most recent monitoring data, including historic well concentrations, are included as Appendix G. In 1993, wells S-11 through S-15 were paved over by the City of San Leandro (Enviros, 1997).

Current groundwater TPH-g concentrations are reported at 81 µg/L and 7,900 µg/L in wells S-3 and S-9, respectively. Well S-9 has the only reported benzene concentration at 21 µg/L (Delta, October 2010).

4.6 Soil Gas Survey (1997)

In March 1997, a second soil gas survey was performed at the site and adjacent mobile home park property (Figure 2). Soil gas samples were collected using GeoProbe direct-push soil vapor sampling equipment at nine locations (SG-01 through SG-09). At five locations (SG-01, SG-02, SG-05, SG-06, and SG-09) soil vapor samples were collected at a depth of 4 feet bgs. At four locations (SG-03, SG-04, SG-07, and SG-08) soil vapor samples were collected at depths of 2 feet, 4 feet, and 6 feet bgs. An ambient air sample (AMB-01) was collected at a location between the service station and the mobile home park. Soil samples were collected at four locations; SG-03, SG-04, SG-07, and SG-08. On July 31, 1997, four additional soil gas sample points were installed (SG-10 through SG-13) in the northeastern portion of the site, with samples collected at 4 feet bgs.

The soil vapor analytical results for March 1997 are summarized in Tables 2 and 3, and the July 1997 soil gas results are included as Appendix F (Table 5 and Plate 2, benzene contour map). The highest TPH-g concentrations in soil gas were detected at locations SG-01 (100,000,000 micrograms per cubic meter [µg/m³]) and SG-07 (130,000,000 µg/m³). The highest benzene concentrations were detected in soil vapor samples SG-01 at 750,000 µg/m³, SG-03 at 90,000 µg/m³ and SG-07 at 450,000 µg/m³.

The highest soil concentrations of TPH-g were detected in SG-03 at 4,200 mg/kg (4 to 6 feet bgs) and 3,600 mg/kg (6 to 8 feet bgs). The highest benzene concentration was detected at location SG-03 at 10 mg/kg (4 to 6 feet bgs).

4.7 Soil Gas Survey (2008)

In June 2008, Delta performed a post-remediation soil gas survey. Soil gas samples were collected from fourteen locations (P-10 through P-23); sample points P-10, P-11, P-12, and P-15 were located on the adjacent mobile home park. Soil vapor samples were collected at a depth of 5.5 feet bgs, just above the top of the saturated zone. TPH-g was detected at concentrations greater than 5,000,000 µg/m³ at locations P-11, P-12, P-19, and P-21 through P-23 located in the western or downgradient portion of the site and adjacent mobile home park. Benzene was detected at greater than 1,000 µg/m³ at sample locations P-11, P-14, and P-21 through P-23. Soil vapor analytical data are summarized in a table included as Appendix F.

4.8 Groundwater Sampling Plan (2009)

In January 2009, Delta submitted a Groundwater Sampling work plan to Alameda County Health Care Services Agency (ACHCSA) per their request to revise the groundwater sampling method protocol. Further evaluation of purge versus no-purge sampling methods indicates there is no significant overall change in concentrations before and after January 1988. Delta had recommended that both purge and no-purge sampling be conducted at the next quarterly monitoring event for wells S-7, S-8, and S-9 in order to ensure that representative samples are collected using the current sampling protocol.

4.9 Soil Gas Survey (2009)

In September 2009, a soil gas investigation was performed at the site per the request of ACHCSA. Delta collected soil vapor samples from six locations, P-24 through P-29 (Figure 2). Soil gas samples were collected from three discreet depths at each location, 3 feet bgs, 5 feet bgs, and 8 feet bgs. Petroleum hydrocarbons were detected in fifteen of the soil vapor gas samples; TPH-g was detected at concentrations ranging from 46,000 µg/m³ to 2,900,000 µg/m³ (Appendix F). Benzene was detected in four soil vapor gas samples at concentrations ranging from 1.7 µg/m³ to 1.9 µg/m³. Methyl tert-butyl ether (MTBE) was not reported in any sample above the detection limit. Fifteen of the eighteen soil vapor gas samples reported

concentrations of the tracer gas 1,1-Difluoroethane, at levels that indicate a potential concern with sampling integrity. Concentrations were generally lower than previous sampling events, however the tracer gas concentrations indicate leaks in the sampling system may have resulted in dilute samples.

4.10 Horizontal SVE Well Installation and Pilot Test (2009)

In August 2009, Delta installed two horizontal soil vapor extraction (SVE) wells (ET-1 and ET-2; Figure 2) in 5-foot deep trenches to target residual hydrocarbons in the shallow vadose zone. The trenches are approximately 12 feet in length, and were screened 10 feet along the length of the trench.

After the installation of ET-1 and ET-2, Delta conducted the SVE pilot test to evaluate the effectiveness of SVE at the site. The pilot test consisted of one step test and one extended test on extraction well ET-1. Results of the testing indicate that SVE may be effective, but difficult to maintain. SVE vapor flow rates were 180 standard cubic feet per minute (scfm), the radius of influence was between approximately 23 to 33 feet, and mass removal rates were adequate (96.4 pounds per day [lb/day] for TPH-g and 0.05 lb/day for benzene). However, a rapid decline in inlet vapor concentrations, soil lithology, and the depth of impact suggested that system operation might be difficult to sustain.

4.11 Soil Gas Well Installations (2009)

In December 2009, nine soil gas wells were installed at the site and the adjacent property (Figure 2). Wells SVG-1 through SVG-3 were installed to a total depth of 8 feet bgs, and wells SVG-4 through SVG-9 were installed to a total depth of 8.5 feet bgs. The nested wells were constructed using 0.25-inch diameter Teflon[®] tubing and probes set at 3 feet, 5 feet, and 7.5 feet bgs. A 1-inch diameter Polyvinyl chloride (PVC) casing screened from 7 to 8 feet bgs with 0.010-inch machine-slotted well screen was installed within the vapor wells in order to take soundings to determine whether groundwater elevations are impacting the deeper vapor wells.

4.12 Source Material Assessment Work Plan (2010)

In February 2010, Delta submitted a work plan to ACHCSA proposing to advance up to 14 soil borings in the vicinity of the former UST tank pit in order to verify the remaining extent of impacted soil. Soil borings were proposed to a depth of approximately 10 feet bgs with the exception of two borings in the vicinity of the former UTS complex, which were proposed to be advanced to depths between 40 and 50 feet bgs.

4.13 Soil Gas Sampling (2010)

In March 2010, soil gas samples were collected from SVG wells SVG-1 through SVG-9, which were installed in December 2009. Soil gas samples were collected from depths of 3 feet at all wells and 5 feet bgs from all wells except SVG-4 and SVG-7. Delta was unable to collect soil gas samples from the deepest probes (7.5 feet bgs) due to elevated groundwater levels. TPH-g was detected in all samples at concentrations ranging from 28,000 $\mu\text{g}/\text{m}^3$ to 110,000,000 $\mu\text{g}/\text{m}^3$; benzene was detected in only one sample at a concentration of 21,000 $\mu\text{g}/\text{m}^3$. Oxygenates MTBE and tert-butyl alcohol (TBA) were not detected in any samples. The TPH-g soil gas plume appears to be centered offsite, with the highest concentrations of TPH-g reported from samples collected at vapor well SVG-6 (in close proximity to monitoring well S-9, which is the center of the small dissolved-phase plume which persists at the site). The *Soil Vapor Sampling Report* was submitted on April 19, 2010 summarizing the March soil gas sampling activities; soil gas concentration tables and contour maps are included as Appendix F.

4.14 Confirmation Soil Borings (2010)

In June 2010, Delta advanced fourteen soil borings (SB-1 through SB-14). Two borings (SB-2 and SB-3) were advanced to 50 feet bgs; the remaining borings were advanced to between 12 and 16 feet bgs with the exception of SB-11, which was advanced to 24 feet bgs. The intent was to determine the vertical and lateral extent of remaining soil contamination in the vicinity of the former UST complex, former dispenser islands, and adjacent property.

Of the 27 samples submitted, TPH-g was detected in only eight samples ranging from 0.53 mg/kg (SB-2 at 12 feet bgs) to a maximum of 1,100 mg/kg (SB-12 at 8 feet bgs); all other samples reported no detectable concentration of TPH-g above the laboratory reporting limits. Diesel range organics (DRO) were detected in five of the 27 samples submitted for laboratory analysis, ranging from 7.3 mg/kg (SB-11 at 8 feet bgs) to a maximum of 110 mg/kg (SB-5 at 8 feet bgs); all other samples reported no detectable concentration of DRO above the laboratory reporting limits. Benzene was not detected in any soil sample above the laboratory detection limit. Ethylbenzene was reported in only one sample (SB-6 at 8 feet bgs) at a concentration of 0.0061 mg/kg. Toluene and total xylenes reported no detectable concentrations above the laboratory reporting limit for any soil samples. Analysis was run for the oxygenates MTBE, TBA, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME) and ethanol, as well as lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC). No concentrations for any oxygenate or lead scavenger compounds were reported above the detection limits. Boring logs are provided as Appendix B and soil analytical data are included as Appendix E.

4.15 Soil Gas Sampling (2010)

In September 2010, Delta conducted a second (seasonal) soil gas sampling event for all SVG wells. A total of sixteen soil gas samples were collected. Soil gas samples were collected from each vapor well location from vapor probes at depths of 3 feet bgs; 5-foot samples were collected from wells SVG-2, SVG-5 and SVG-6; both 5-foot, and 7.5 foot samples were collected from wells SVG-8 and SVG-9. Delta was unable to collect the additional 5-foot and 7.5-foot samples due to elevated groundwater levels in those locations.

TPH-g was detected in all samples above the San Francisco Bay Region Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for both residential and commercial land use with the exception of the 5-foot samples at SVG-9, which also reported a high concentration of the leak compound, likely compromising the sample results. Benzene was detected above the residential and commercial ESLs in six samples at various depths collected from nested wells SVG-1, SVG-2, SVG-5 and SVG-6, with a maximum reported concentration of 46,000 $\mu\text{g}/\text{m}^3$ (SVG-6 at 5-feet bgs). No toluene concentrations were reported above the laboratory reporting limits. Ethylbenzene was detected above the residential and commercial ESLs in four samples at various depths collected from nested wells SVG-2, SVG-5 and SVG-6, with a maximum reported concentration of 200,000 $\mu\text{g}/\text{m}^3$ (SVG-2 at 5-feet bgs). Total xylenes were reported above the residential and commercial ESLs in a single sample (SVG-2 at 5 feet bgs) at 44,000 $\mu\text{g}/\text{m}^3$. Oxygenates MTBE and TBA were not detected in any samples, although the reporting limits at two wells (SVG-2 and SVG-6) were elevated above the residential and commercial ESLs for MTBE due to sample dilution. As was noted from the earlier sampling event in March 2010, the TPH-g soil gas plume remains centered offsite with the highest contaminant concentrations reported in samples collected at SVG-6. Elevated sample concentrations correlate to the presence of offsite source material which has migrated through a permeable layer in near-surface soils. The fall soil gas sampling event indicates an average increase in results from the spring event for all contaminants, as well as increases in carbon dioxide (CO_2). Soil gas concentration tables and contour maps are included as Appendix F.

4.16 Residual Soils as On-Going Source

Depth to groundwater has varied historically from approximately 4 to 9 feet bgs but is typically between 6 and 8 feet bgs. Petroleum hydrocarbons are primarily concentrated in the dissolved phase and as soil gas in the subsurface permeable zones. The saturated clay soils beneath the USTs are anticipated to contain a small mass of petroleum hydrocarbons. Previous reports indicate that minimal over-excavation was performed during UST removal activities in 1987. An SVE system which operated at the site from 1998 to 1999 appears to have been effective in removing a substantial mass of petroleum hydrocarbons from shallow onsite soils. Declining TPH-g concentrations in groundwater samples from onsite wells coupled with confirmation soil boring results indicate a majority of TPH-g has been leached from onsite soils. However, there appears to be a smear zone cross- and down-gradient of the initial onsite source areas resulting from migration of dissolved-phase hydrocarbons; the remaining soil impacts were reported in the vicinity of confirmation borings SB-8 (onsite), and offsite borings SB-12 and SB-14 (Appendix E).

4.17 Summary

A release of gasoline from the former site USTs occurred sometime prior to 1985, when four monitoring wells were installed and petroleum impacts were noted in soil and groundwater; in addition, SPH was detected in well S-3. Oxygenates are not included in the chemicals of concern due to the age of the release, which has been confirmed in recent soil samples. A review of recent and historical soil data indicates that remaining soil impacts are primarily in onsite soils immediately down- and cross-gradient to the former dispenser island in the northern portion of the site, and in offsite soils to the west and southwest of the former source areas (former dispensers and UST complex). Only three samples reported TPH-g concentrations above the residential and commercial San Francisco Bay Region RWQCB ESLs. Only one sample reported DRO results above the residential and commercial ESLs, and none were reported above the ESL for motor oil. Due to the generally high groundwater levels at the site (typically averaging from 6 to 8 feet bgs), it is probable that leaks from the USTs were introduced directly into the saturated zone, which allowed contaminants to migrate down- and cross-gradient of source areas, including the dispenser islands.

The vertical extent of remaining soil contamination has been defined. Remaining soil impacts appear to be limited to the shallow vadose zone in the vicinity of onsite confirmation boring SB-8 and offsite borings SB-12 and SB-14, which would appear to be correlated to the leading edge of the dissolved-phase plume, and the upper water-bearing zone primarily in the vicinity of monitoring well S-9. With the exception of the two deeper borings at SB-2 and SB-3, all confirmation borings were advanced to a total depth where PID readings and observations indicated the absence of petroleum impacts to soil; bottom samples were collected from all boring locations. Soil analytical results are and included as Appendix E and summarized in Table 1.

Soil samples collected in 1997 (Enviros, 1997) reported TPH-g results for samples collected on the subject property and adjacent property; a copy of the soil concentration map is included as Appendix E. A comparison of several soil samples collected in 2010 in proximity to samples collected in 1997 is provided below, and indicate that substantial degradation of soil impacts has occurred.

SOIL SAMPLE COMPARISON (1997 & 2010)				
Date Sampled	Sample Identification	Sample Depth	TPH-g (ppm)	Benzene (ppm)
1997	S-16	5 feet	1,100	3
2010	SB-7	10 feet	ND(<0.5)	ND(<0.005)
1997	S-9	4 feet	2,200	17
2010	SB-14	6 feet	290	ND(<0.5)
1997	S-8	4 feet	5,600	31
2010	SB-12	8 feet	1,100	ND(<2)
TPH-g = Total petroleum hydrocarbon as gasoline ppm = Parts per milligram (equivalent to micrograms per kilogram [mg/kg]) ND = Not detected above the laboratory detection limit				

Groundwater contamination is currently limited to a small localized plume around offsite well S-9, with decreasing impacts in onsite well S-3 approaching ESLs; all other wells are typically non-detected for all contaminants of concern. The prevailing groundwater flow direction at the site is to the southwest, with a hydraulic gradient of 0.01 feet per foot (ft/ft) or less. Historical groundwater monitoring data show stable groundwater elevations since 1988 between approximately 6 and 8 feet bgs, indicating that the smear zone is several feet thick at most. The dissolved-phase plume is comprised of weathered gasoline components and has stabilized in the vicinity of well S-9. Historical groundwater monitoring data are provided in Table 2.

The most recent soil gas data indicates that soil vapors persist in the shallow subsurface but appear to be confined within the shallow clay layer. Because the entire site and adjacent property are covered with asphalt, soil gas is not thought to be a current risk to residents.

5.0 FATE AND TRANSPORT CHARACTERISTICS

The following sections describe potential contaminant migration pathways for petroleum hydrocarbons. Plume migration and contaminant concentration trends are discussed.

5.1 Underground Utility Conduits

The exact location and depth information of utility trenches, both on-site and in the site vicinity, have not been determined, but utilities (including sewer) are known to exist onsite in the vicinity of the former UST complex (Kaprelian, 1987). Based on the documents in Delta files, a survey of nearby utilities for the purpose of a preferential pathway evaluation has not been performed.

5.2 Soil Migration Pathways

Soils beneath the site area are generally fine-grained and do not provide pathways for rapid spread of contaminants. Borings have encountered primarily clay to a depth of approximately 25 feet bgs. Alternating clays, silty sand and sand were found from approximately 25 feet bgs to 50 feet, the total depth explored. Boring logs with well construction details are provided as Appendix B.

5.3 Hydrogeologic Pathways

Migration of dissolved contaminants through clay soil appears to be limited since its release more than 20 years ago. TPH-g has migrated beyond well S-9 located approximately 50 feet downgradient and S-8 located approximately 70 feet downgradient. TPH-g is not detected in wells S-10 and S-13 located approximately 150 feet downgradient (Figure 2).

The groundwater flow direction beneath the site has consistently been to the west and southwest, at a gradient of approximately 0.01 ft/ft or less. Hydrogeologic cross-sections are included as Appendix C; historical groundwater contour maps are provided as Appendix D and data from the most recent monitoring event (third quarter 2010) are included as Appendix G.

The groundwater flow rate beneath the site can be approximated based on the hydraulic conductivity of the soil, groundwater flow gradient and effective soil porosity. The linear groundwater flow rate or velocity (V) can be calculated from the formula:

$$V = (K \times I)/N$$

where K = soil coefficient of hydraulic conductivity

I = groundwater gradient

N = effective soil porosity

The predominant soil type observed beneath the site was clay. Though slug tests were performed in 1990, the results were interpreted as reflecting the well sand pack rather than the surrounding soil. The average K for a clay is estimated in the range of 1×10^{-6} to 1×10^{-8} centimeters per second and the effective porosity at 45 percent (Freeze and Cherry, 1979). The site hydraulic gradient has been approximately 0.01 ft/ft. Using the above estimated parameters, a groundwater velocity of less than 1-foot feet per year is calculated.

The flow rate for TPH-g can also be estimated based on historic groundwater monitoring data. The TPH-g appears to have migrated approximately 100 feet since before 1985 when the first groundwater monitoring wells were installed (approximately 25 years ago). The resulting calculated flow rate is 4 feet per year which would be typical for a sandy silt rather than a clay. The discrepancy may be the result of secondary permeability consisting of fractures and root holes reported in some clay samples.

5.4 Contaminant Migration Model

It appears that a release occurred prior to 1985 from the former site USTs removed in 1987. The USTs were submerged below the top of the saturated zone at approximately 5 to 10 feet bgs. Petroleum hydrocarbons moved directly from the USTs into the groundwater, where they were dissolved and began migrating with

the groundwater to the west-southwest. By January 2008, dissolved petroleum hydrocarbons had migrated more than 100 feet down-gradient, and TPH-g was detected in well S-9 at 15,000 µg/L; the most recent monitoring results for S-9 reported TPH-g at 7,900 µg/L. The down-gradient limit of TPH-g in groundwater has been defined by offsite wells S-10, S-13, S-17 and S-18, which reported no detectable concentrations for any contaminants in the 2010 annual monitoring results. The dissolved-phase TPH-g plume and the TPH-g soil gas plume both appear to be centered offsite in the vicinity of monitoring well S-9.

An ARCO service station is located approximately 125 feet southeast of the site (Figure 3). The ARCO service station is cross-gradient from the site. The former Shell station does not appear to have any impact on the ARCO station.

5.5 Concentration Trends

Dissolved-phase TPH-g concentrations have declined over time. TPH-g concentrations in onsite well S-3, located immediately down-gradient of the former UST complex, have steadily declined from maximum concentrations reported in 1992 through 1994. Wells S-8 and S-9 are located approximately 75 feet and 50 feet, respectively, west and southwest of well S-3. TPH-g concentrations in well S-8 began increasing in 1991, reaching a maximum concentration of 2,300 µg/L in October 2002, which has since become a decreasing trend. TPH-g concentrations in well S-8 have been non-detected above the standard report limit for the last four monitoring events. TPH-g concentrations in well S-9 began to increase in late 1992, reaching a maximum concentration of 22,500 µg/L in July 2006, which has since become a decreasing trend. The most recent quarterly groundwater monitoring results (July 2010) reported a TPH-g concentration of 7,900 µg/L in well S-9. Results from the most recent monitoring event, including historical groundwater data, are included as Appendix G; TPH-g concentration graphs for wells S-3, S-8 and S-9 are presented as Appendix H.

6.0 SITE REMEDIATION

The site fuel USTs were removed and replaced in June 1987. Soils were over-excavated during removal of the waste oil tank to a depth of approximately 13 feet bgs and approximately 2 to 4 feet beyond the dimensions of the tank; the actual volume removed was not reported. Approximately 500 cubic yards of soil were removed from the tank pit and transported off site during removal of the four fuel USTs in 1987. An additional volume of approximately 200 cubic yards of soil were excavated from trenches in the dispenser areas.

A groundwater step test was performed at the site March 27, 1990 (GSI, 1990). Due to the low-yield nature of the aquifer, well SR-1 nearly dewatered after 52 minutes of pumping at an average flow rate of 2 gallons per minute (gpm). Slug tests were performed at wells S-1, S-3, S-5, S-7, S-9, S-10, S-13, S-14 and S-16 to estimate the hydraulic properties of the shallow aquifer. Low T- and K-values from the step test and slug tests suggested very slow transport of contaminants in groundwater beneath the site.

A total of approximately 1,410 pounds of vapor-phase hydrocarbons were removed by an SVE system which operated in 1998 and 1999. The system was shut down due to declining inlet concentrations and removed from the site in 2002 (Delta, June 2007).

An SVE pilot test was performed in 2009 using two 10-foot horizontal test wells (ET-1 and ET-2) in five-foot deep trenches. A total of approximately 119 lbs of TPH-g and 0.058 lbs of benzene were removed from Well ET-1 during a 29.5-hour period. A continuous test of approximately 21.5 hours was performed following a step test. The initial PID reading of 4,050 parts per million (ppm) at the beginning of the SVE step test fell steadily to a concentration of approximately 537 ppm at the conclusion of continuous testing (after a total of approximately 29.5 hours of operation). This was corroborated by the analytical vapor sample results of 4,100 parts per million by volume (ppmv) TPH-g and 2.1 ppmv benzene at the beginning of the pilot test, falling to 530 ppmv TPH-G and 0.25 ppmv benzene at the end of the test. Delta concluded that current inlet concentrations could not be sustained with regular operation of an *in situ* SVE system. Remediation operational and analytical data are included as Appendix I.

7.0 RISK-BASED CORRECTIVE ACTION EVALUATIONS

The following sections evaluate the various potential impacts to sensitive receptors from petroleum hydrocarbons detected in soil and groundwater.

7.1 Previous Risk-Based Corrective Action (RBCA) Evaluation

Weiss Associates, in December 1996, prepared a Tier I RBCA evaluation (Weiss, June 23, 1997). Tier I risk-based screening levels (RBSLs) were established for benzene, ethylbenzene, toluene, xylene, and MTBE using the “models and recommended parameters in the ASTM Standard.” A copy of the computer out-put is contained in Appendix J. Based on the Tier I RBCA evaluation, RBSLs were found to be exceeded for the following potentially complete pathways:

- Volatilization of benzene and toluene from subsurface soils (>3 feet depth) to indoor air;
- Volatilization of benzene from subsurface soils to outdoor air;
- Leaching of benzene and toluene from subsurface soils to groundwater;
- Volatilization of benzene from groundwater to indoor air;
- Ingestion of benzene contaminated groundwater.

Weiss Associates next completed a Tier II evaluation using site specific data. Weiss used a risk of 10^{-5} for carcinogenic chemicals and a hazard quotient of 1.0 for non-carcinogenic chemicals for residential land use. Site specific target levels (SSTL) were calculated. Comparison of representative benzene concentrations in the site soils and groundwater to the Tier 2 SSTLs indicated that SSTLs were exceeded for the following potentially complete pathways:

- Volatilization of benzene in soil to indoor air;
- Volatilization of benzene in the groundwater to indoor air;
- Ingestion of benzene in groundwater above drinking water standard (maximum contaminant limit - MCL).

The Weiss report concluded that there was a potential risk associated with indoor air quality at the site and adjacent mobile home park. As a result of these evaluations, a SVE system was installed at the site. The system operated from 1998 to 1999.

7.2 Environmental Screening Levels

Additional soil gas sampling was performed most recently in September 2010. Results of soil gas analysis indicated that TPH-g and benzene concentrations in soil and groundwater beneath the site and the adjacent mobile home park remained above RBSLs. The San Francisco Bay Region RWQCB ESLs were referenced in comparison with soil gas concentrations from wells installed in December 2009. The ESLs were designed for chemicals commonly found in soil and groundwater at sites where releases of chemicals have occurred, and are considered to be conservative values. Within noted limits, risks to human health and the environment can be considered to be insignificant at sites where concentrations of chemicals of concern do not exceed the respective ESLs, however the presence of chemicals of concern above the ESLs does not necessarily indicate that a significant risk exists at the site. The tables below compare site specific soil and groundwater concentrations for TPH-g and benzene with ESLs for various potential sensitive receptors.

Direct Soil Exposure Screening Levels	ESL Table	TPH-g (mg/kg)	Benzene (mg/kg)	Exceeds ESL?
Current Max. Shallow Soil Concentration Shallow soils (<3 meters) (June 2010)	N/A	1,100 (SB-12 at 8 feet)	ND (<2) (SB-12 at 8 feet)	N/A
Residential Exposure	K-1	110	0.12	Yes
Commercial/Industrial Worker Exposure	K-2	450	0.27	Yes
Construction/Trench Worker Exposure	K-3	4,200	12	No

Shallow Soil Gas (Vapor Intrusion Concerns)	ESL Table	TPH-g (ug/m³)	Benzene (ug/m³)	Exceeds ESL?
Maximum soil gas concentrations (September 2010)	N/A	160,000,000 (SG-6 at 5 feet)	46,000 (SG-6 at 5 feet)	N/A
Residential Land Use	E	10,000	84	Yes
Commercial/Industrial Land Use	E	29,000	280	Yes

Groundwater Screening Levels (Vapor Intrusion Concerns)	ESL Table	TPH-g (ug/L)	Benzene (ug/L)	Exceeds ESL/MCL?
Maximum Groundwater Concentrations (July 2010)	N/A	7,900 (S-9)	21 (S-9)	N/A
Residential Land Use	E-1	(use soil gas)	540	No
Commercial/Industrial Land Use	E-1	(use soil gas)	1,800	No
California Maximum Contaminant Level (MCL)	F-3	210	1.0	Yes

A comparison of September 2010 soil vapor samples and third quarter groundwater data with screening levels indicate ESLs are exceeded for direct exposure and indoor air inhalation beneath the site and adjacent mobile home park, based on concentrations alone. It should be noted that both properties (the former station site and the adjacent mobile home park) are covered in asphalt, so there is no direct exposure and limited volatilization to the atmosphere.

7.3 Delta 2008 RBCA Tier II Analysis

In September 2008, Delta prepared a Risk Based Corrective Action Plan (RBCA) for removal of petroleum hydrocarbon impacted soil at the above referenced site. The following assumptions were made:

- Chemicals of concern were identified as TPH-g (carbon range C-07 to C-08 aromatics) and benzene.
- Depth to groundwater of 6 feet bgs.
- Surface soils from 0 to 3 feet bgs (upper vadose zone).
- Subsurface soils from 3 to 6 feet bgs (lower vadose zone).
- Acceptable risk of 1×10^{-6} for carcinogenic chemicals and a target hazard quotient of 1.0 for non-carcinogenic chemicals
- Cleanup levels based on residential land use.
- Program default parameters were used for soil vapor migration and standard building construction.
- Johnson & Ettinger model was used for air migration calculations.

7.4 Calculations of SSTLs

Delta calculated site RBCA SSTLs using software produced by Groundwater Services, Inc. titled RBCA Tool Kit for Chemical Releases, Version 2.01. The RBCA program divides the subsurface into surface soils, subsurface soils, and groundwater. The program does not allow for analysis of impacted soils within the groundwater zone.

Cleanup levels or SSTLs were calculated for soil volatilization to indoor air, soil volatilization to outdoor air, inhalation for excavation workers with impacted soil, and groundwater volatilization to outdoor and indoor air. A copy of the program input and out-put tables and illustrations is provided as Appendix J.

Model output results are summarized below and compared to current and historic data where available; subsurface soils to 6 feet are based on a comparison to recent analytical data.

SSTLs Surface Soil (0 to 3.3 feet)	TPH-g (mg/kg)	Benzene (mg/kg)	Exceeds SSTL?
Max. Surface Soil Concentrations (March 1997)	5.1	0.22	N/A
Soil volatilization to indoor air	>1,000	0.59	No
Direct contact: residential inhalation	330,000	450	No
Direct contact - Construction workers (inhalation)	1,000,000	26,000	No

SSTLs Subsurface Soil (3.3 to 6.0 feet)	TPH-g (mg/kg)	Benzene (mg/kg)	Exceeds SSTL?
Max. Subsurface Soil Concentrations (June 2010)	280	ND(<0.5)	N/A
Soil volatilization to indoor air	>1,000	0.59	No

SSTLs Groundwater (Volatilization to Indoor Air)	TPH-g (µg/L)	Benzene (µg/L)	Exceeds SSTL?
Max. Groundwater Concentrations (July 2010)	7,900	21	N/A
Groundwater volatilization to outdoor air (residential)	>65	1,800	No
Groundwater volatilization to indoor air (residential)	>65	2.7	Yes

> = Indicates risk-based target concentrations greater than constituent solubility

7.5 SSTL Evaluation

Delta's RBCA Tier II evaluation indicates that SSTLs are exceeded for subsurface soils for TPH-g and benzene volatilization to indoor air and for groundwater for benzene volatilization to indoor air beneath the site and adjacent mobile home park. However, it should be noted that persistent groundwater concentrations remain only in the vicinity of well S-9, which is an offsite well in a driveway at the mobile home park. Due to the raised construction of a typical mobile home and the asphalt cover on the entire property, a more site-specific risk evaluation should be performed to verify this risk pathway.

7.6 Impact to Drinking Water Supply Wells

Multiple well surveys have been performed for the site; a review of DWR files was performed in 2006 by TRC to identify any wells within a ½-mile radius of the site. The well search did not identify any water supply wells within ½-mile of the site. A copy of the TRC well survey study and other, including the wells reported in the EDR report issued March 2010, are included as Appendix A.

8.0 SENSITIVE RECEPTOR SURVEY

8.1 Radius Report

As part of this Sensitive Receptor Survey, Delta reviewed the Environmental Data Resource (EDR) radius report for reported facilities within a ½-mile radius of the Site. The March 2010 EDR radius report (included as an attachment to the *First Quarter 2010 Soil Gas Investigation* Report issued April 19, 2010 by Delta) identified facilities within a ½-mile radius of the site, which are summarized below.

EDR MAP ID	Facility Name	Facility Address	Distance From Site	Direction From Site	Database Listings
F25	Caltrans District 4	600 Lewelling Blvd	0.158 miles	East	LUST, HIST UST, SWEEPS, HIST CORTESE
C5	Salel Automotive Service	15245 Washington Ave	0.083 miles	Northeast	HIST UST, SWEEPS
D19	Tosco Northwest Co No 11106	15199 Washington Ave	0.138 miles	North-Northeast	UST, SWEEPS
29	EBMUD South Area Service Center	589 Lewelling Blvd	0.239 miles	East	UST
A3	ARCO #00601	712 Lewelling Blvd	0.020 miles	East-Northeast	LUST (open), HIST UST, SWEEPS, HIST CORTESE,
B8	Greenhouse Plaza	699 Lewelling Blvd	0.092 miles	East-Northeast	LUST, HIST CORTESE
G28	Domingo Ronconi Property	15550 Washington Ave	0.213 miles	South-Southeast	LUST, HIST CORTESE
H30	Mahdi Mohammadian	15595 Washington Ave	0.260 miles	South-Southeast	LUST (open), HIST CORTESE
36	San Lorenzo School	15701 Lorenzo Ave	0.383 miles	South-Southeast	LUST, HIST CORTESE
I38	Roto Rooter Sewer Service	14985 Washington Ave	0.454 miles	North	LUST, HIST CORTESE
41	Chevron Station #5630	997 Grant Ave	0.482 miles	South-Southeast	LUST, HIST CORTESE
D14	Gasco	15201 Washington Ave	0.138 miles	North-Northeast	LUST (open), UST, HIST UST, SWEEPS, HIST CORTESE
34	Faria Brothers Hardware	519 Manor Blvd	0.375 miles	North	LUST, HIST CORTESE
35	Faith Fellowship Church	577 Manor Blvd	0.381 miles	North-Northwest	LUST
D19	BP	15199 Washington Ave	0.138 miles	North-Northeast	LUST, HIST UST, SWEEPS, HIST CORTESE
F21	Engine Research Company	610 E Lewelling Blvd	0.148 miles	East	UST
E10	Fire Station #5	637 Fargo Ave	0.128 miles	North	HIST UST

HIST UST = Historical Underground Storage Tank

HAZNET = Waste Information System

LUST = Leaking Underground Storage Tank

HIST CORTESE = Historical Cortese

SWEEPS UST = Statewide Environmental Evaluation and Planning System Underground Storage Tank

Delta identified the Arco facility (712 Lewelling Blvd), located east-northeast from the site, as an open environmental case under the oversight of the Alameda County Water District. Based on the number and locations of the documented facilities above and the documented extent of the petroleum hydrocarbon impacted groundwater plume at the site, Delta believes impact to any of the identified receptors in this report cannot be directly attributed to the release at the site.

8.2 EDR Well Search

Delta reviewed the EDR well search, which is included as part of the EDR radius report. The well search includes wells identified in the Federal United States Geological Service (USGS), Federal FRDS Public Water Supply System Information, and State Database Well Information. Three USGS water wells were identified within ¼ to ½-mile radius of the site. USGS well locations can be found on the Physical Setting Source Map in the EDR report. The EDR report is not included as an attachment to this report, but the well information portion has been appended to Appendix A. Delta conducted a well search through the DWR to identify wells not reported during the EDR search.

8.3 Well Search

As part of the sensitive receptor survey, Delta contacted the DWR to provide updated information for all wells within ½-mile of the site. The purpose of the search was to identify all water supply, domestic, municipal, and irrigation wells which have the potential to be affected by the petroleum hydrocarbon release at the site. Based on the information DWR provided, there are no sensitive wells located within a ½-mile radius of the site, which confirmed earlier well survey findings provided by Emcon, Toxicchem, Delta, and TRC.

8.4 Web-Based Receptor Search

Using various online mapping programs and search engines, Delta conducted a web-based search to identify any sensitive receptors (schools, churches, day care facilities, elderly care facilities, hospitals, surface water bodies, etc.) within ½-mile of the site which have the potential to be affected by the petroleum hydrocarbon release at the site. There are no hospitals or libraries within a ½-mile radius of the Site. Delta identified the following sensitive receptors during the web-based search (all distances are approximate):

- San Lorenzo Creek (293 yards south)
- Estudillo Canal (340 yards west)
- Lewelling Playground Park (250 yards west-northwest)
- Arroyo Swim Center (0.442 miles southwest)
- Chinese Christian School, 750 Fargo Street (260 yards northwest)
- Community Christian School, 562 Lewelling Boulevard (411 yards east)
- Arroyo High School, 15701 Lorenzo Avenue (0.442 miles south)
- Grant Elementary School, 879 Grant Avenue (0.497 miles southeast)

Based on the above identified receptors' distance and direction from the site, soil lithology at the site, and extent of hydrocarbon impact, the above receptors are not anticipated to be affected by the petroleum hydrocarbon release at the site.

9.0 SUMMARY

Delta prepared this updated SCM to describe the occurrence, migration, and fate of petroleum hydrocarbons identified beneath the site and down gradient adjacent property (Salel's Mobile Home Park). The following are the key observations and conclusions:

- A release of gasoline from the former site USTs appears to have occurred prior to March 1985.
- SPH was detected in well S-B near the former USTs in 1986 at a thickness of 0.4 feet. A petroleum hydrocarbon plume has migrated off site to the west-southwest beneath an adjacent mobile home park. The down-gradient extent of the plume has been defined (wells S-10, S-17, and S-18). Well S-9, located within the mobile home park, currently has the highest concentrations of TPH-g (7,900 µg/L) and benzene (21 µg/L) in groundwater. TPH-g concentrations in well S-9 appear to have peaked in 2005 and are currently decreasing. All other wells are currently reporting minimal or non-detected contaminant concentrations (Appendix G).
- The third quarter 2010 groundwater flow direction was to the south southwest with a flow gradient of approximately 0.01 feet per foot (Appendix G). Historical depth to groundwater typically occurs between approximately 6 and 8 feet bgs; monitoring wells are typically screened from 5 feet to 20 feet bgs (Appendix B).
- Site soils are generally clay and silty clay to a depth of approximately 25 feet bgs. Clay interbedded with silty sand and sand are found from approximately 25 feet to 50 feet bgs, the total depth explored (Appendix B).
- In June 2010, Delta advanced soil borings SB-1 through SB-14 to determine the vertical and lateral extent of remaining soil contamination at the site. TPH-g concentrations were detected in eight samples ranging from 0.53 mg/kg in SB-2 at 12 feet bgs to a maximum of 1,100 mg/kg in SB-12 at 8 feet bgs. DRO was detected in five of the 27 samples submitted at concentrations ranging from 7.3 mg/kg in SB-11 at 8 feet bgs to a maximum of 110 mg/kg in SB-5 at 8 feet bgs. Benzene was not detected in any soil sample above the laboratory detection limit. In general, significant attenuation of contaminant concentrations in soil were noted (Appendix E).
- An initial RBCA Tier I and II evaluation conducted by Weiss Associates in 1997 concluded there were potential risks associated with indoor air quality at the site and adjacent mobile home park. As a result of those evaluations, an SVE system was installed at the site and operated in 1998 and 1999. Approximately 1,410 pounds of vapor-phase hydrocarbons were removed by the SVE system. The system was shut down in 1999 due to low inlet concentrations, and was removed from the site in 2002 (Delta, June 2007). A more recent risk evaluation is summarized above and indicates a level of continuing risk for potential indoor intrusion, though soil and groundwater concentrations overall have decreased significantly (Appendix J).

10.0 RECOMMENDATIONS

Risk-based soil and groundwater cleanup assessments indicate that the current primary potential risk pathway is volatilization from subsurface soils, but based on historical and current site usage, indoor air intrusion does not appear to be a factor. Groundwater has attenuated to levels near or below the ESLs in all wells with the exception of offsite well S-9; concentrations in that well appear to have been declining since 2005, at which time the trend shifted from an increasing trend to a decreasing trend. Significant attenuation of contaminant concentrations in soil samples was noted during an investigation in June 2010. Delta recommends performing a detailed evaluation of site-specific risk factors and pathways using the most recent analytical data and site conditions, to be summarized in a report which will include recommendations to address any remaining potential risk pathways.

11.0 LIMITATIONS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

12.0 REFERENCES

- R. Allan Freeze and John A. Cherry, "Groundwater", Prentice Hall, 1979.
- California Department of Water Resources, *Bulletin 118 Updated 2003, California's Groundwater*, October 2003.
- California Department of Water Resources, *Well Log Search*, October 6, 2010.
- Delta Consultants, *Soil Vapor Investigation Work Plan*, June 15, 2007.
- Delta Consultants, *Site Vapor Investigation Report*, October 7, 2008.
- Delta Consultants, *SVE Pilot Test Work Plan*, January 27, 2009.
- Delta Consultants, *Groundwater Sampling Plan*, January 30, 2009.
- Delta Consultants, *Revised Groundwater Sampling Plan*, May 21, 2009.
- Delta Consultants, *Additional Soil Vapor Gas Sampling Report*, October 16, 2009.
- Delta Consultants, *SVE Pilot Test Report*, November 19, 2009.
- Delta Consultants, *Source Material Assessment Work Plan*, February 26, 2010.
- Delta Consultants, *Soil Gas Investigation Report*, April 19, 2010.
- Delta Consultants, *Soil Boring Assessment Report*, August 11, 2010.
- Delta Consultants, *Semi-Annual Groundwater Monitoring Report – Third Quarter 2010*, October 6, 2010.
- Enviros, Inc., *Corrective Action Plan*, June 24, 1997.
- Enviros, Inc., *Site Investigation Report*, August 13, 1997.
- GeoStrategies, Inc., *Quarterly Groundwater Sampling Report (Attachment C)*, June 23, 1990
- GeoStrategies, Inc., *Aquifer Test Report*, June 29, 1990.
- GeoStrategies Inc., *Site Update/Well Installation Report*, June 24, 1991.
- Helly, E.J. et al; *Flatland Deposits – Their Geology and Engineering Properties and Their Importance to Comprehensive Planning; Selected Examples from the San Francisco Bay Region, California, U.S.* Geologic Survey Professional Paper 943, 1979.
- Kaprelian Engineering, Inc., *Soil Sampling Investigation*, June 24, 1987
- Kaprelian Engineering, Inc., *Additional Subsurface Investigation*, December 7, 1987
- San Francisco Bay Region, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final - November 2007* (Revised May 2008).
- Weiss Associates, *Vadose Zone Characterization Report and Tier 2 Risk-Based Corrective Action Evaluation for Former Shell Service Station*, June 23, 1997.

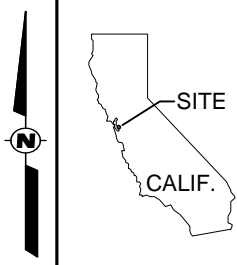
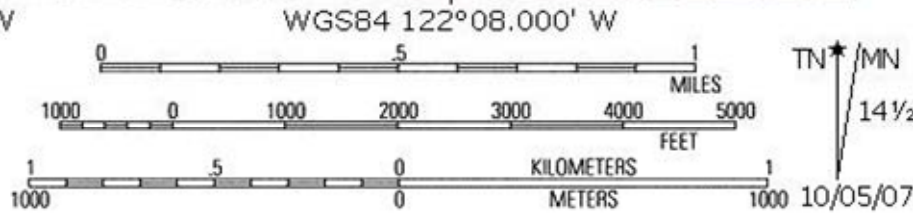
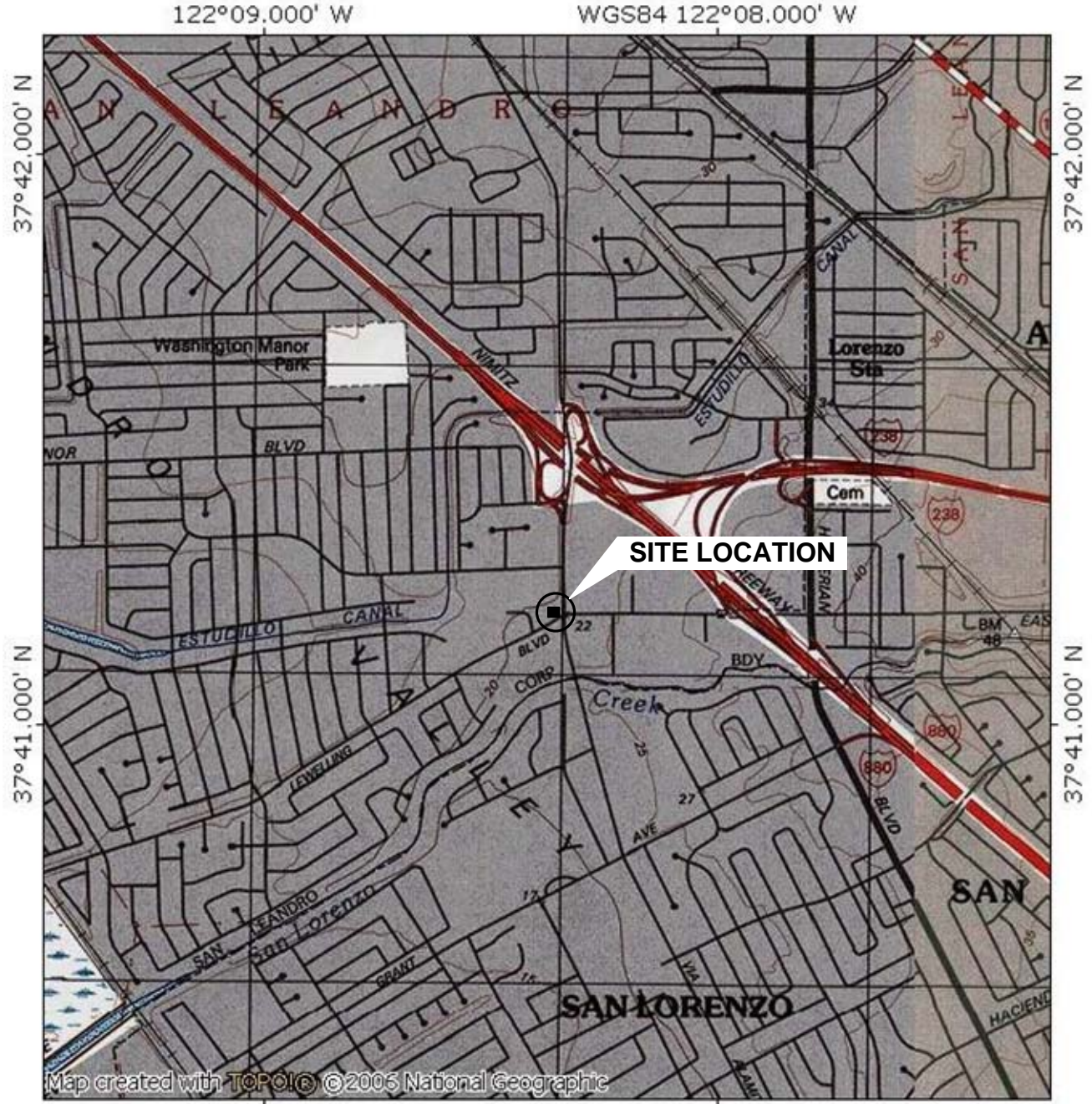
FIGURES

DRAWING NUMBER
SCA152751D

APPROVED BY

CHECKED BY

DRAWN BY
J.F.F.



SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
SAN LEANDRO, CALIFORNIA

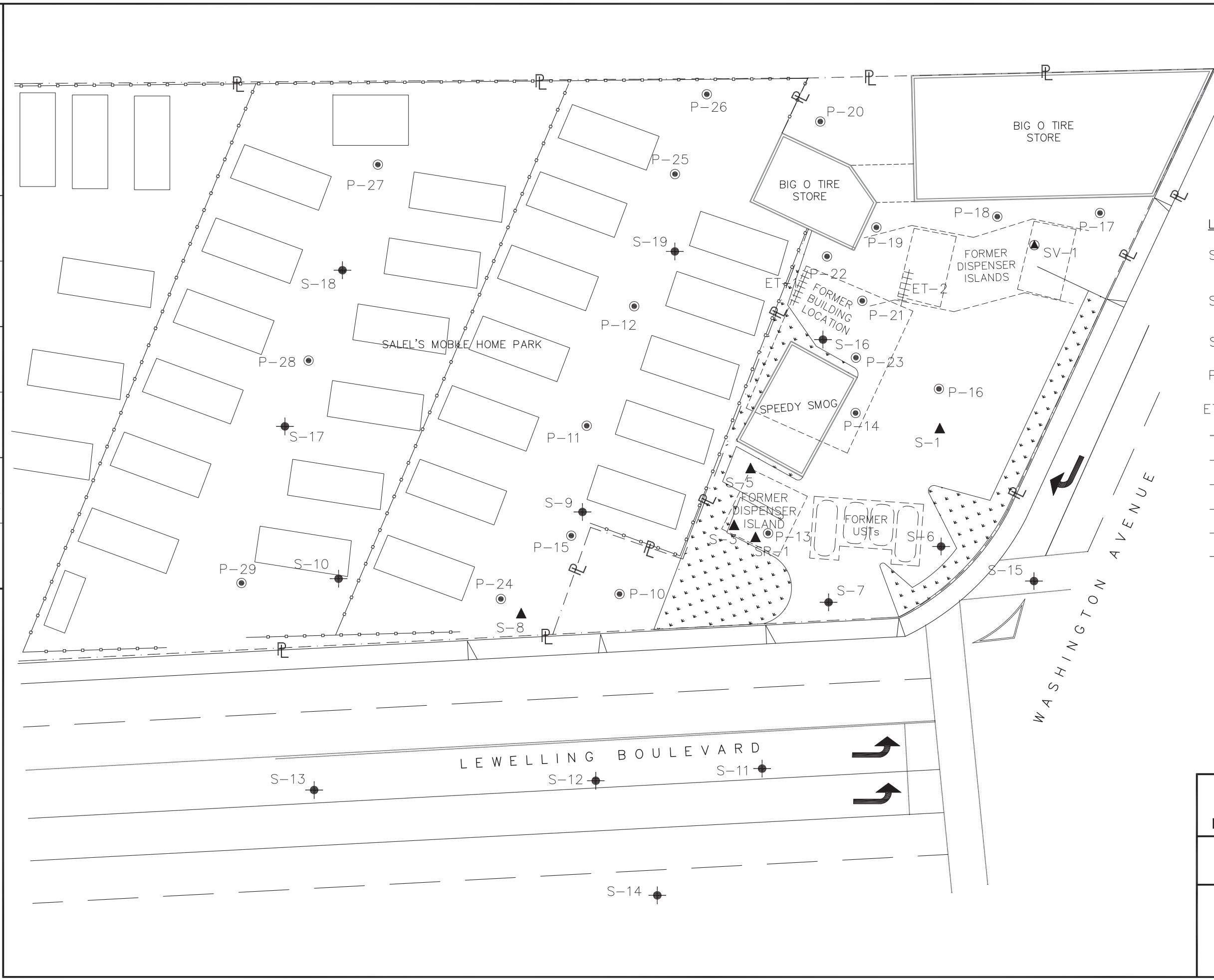
FIGURE 1
SITE LOCATION MAP
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER
SCA15275-1

APPROVED BY

CHECKED BY

DRAWN BY
AD
2/16/2010



- LEGEND**
- S-15 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-18 SOIL VAPOR PROBE LOCATION AND DESIGNATION
 - ET-1 EXTENDED TEST WELL
 - TRAILER PARK STRUCTURE
 - FORMER BUILDING
 - FORMER UST LOCATION
 - PROPERTY LINE
 - FENCING

DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 2

SITE MAP

15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

Figure 3 – Aerial Photograph of Site Area

Former Shell-branded Service Station

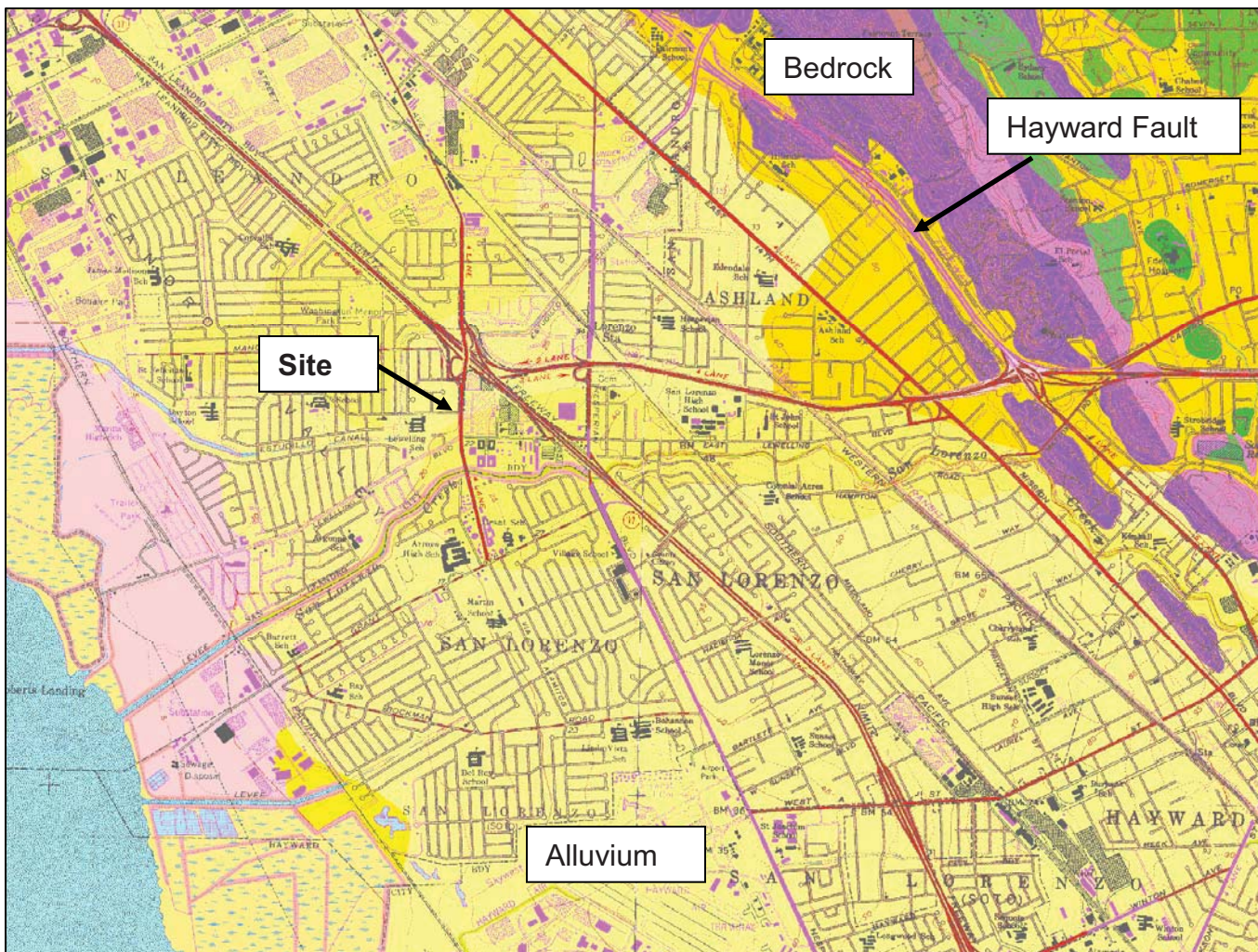
15275 Washington Boulevard

San Leandro, California



Figure 4 – Geologic Map

Former Shell-branded Service Station
15275 Washington Avenue
San Leandro, California



TABLES

TABLE 1
HISTORIC SOIL ANALYTICAL DATA

Former Shell Service Station
15275 Washington Boulevard
San Leandro, California

Sample Location	Sample Date	Depth (feet)	TPH-g (mg/kg)	Benzene (mg/kg)
-----------------	-------------	--------------	---------------	-----------------

Soil Borings (Initial Well Installations)				
S-2	6/18/1985	7 - 8.5	<2	<0.1
S-3	6/18/1985	5 - 6.5	3,900	6
S-4	6/18/1985	5 - 6.5	3,100	<10

UST Borings				
S-B	8/15/1986	3.5 - 5	1,700	1.0
S-B	8/15/1986	11 - 12.5	1,500	5.6
S-B	8/15/1986	14 - 15.5	<5	<0.05
S-C	8/15/1986	3.5 - 5	310	<0.5
S-C	8/15/1986	7.5 - 9	<200	<0.2
S-C	8/15/1986	11.5 - 13	<5	<0.05
S-C	8/15/1986	14 - 15.5	300	1.6
S-C	8/15/1986	15.5 - 17	<5	<0.05
S-D	8/15/1986	3.5 - 5	<100	<0.1
S-D	8/15/1986	7 - 8.5	<5	<0.05
S-D	8/15/1986	11 - 12.5	<5	0.11
S-D	8/15/1986	14 - 15.5	<5	<0.05

UST Tank Removals (June 1987)				
Soil A	6/9/1987	sidewall	1.0	<0.1
Soil B	6/9/1987	sidewall	74	2.5
Soil C	6/9/1987	sidewall	31	<0.1
Soil D	6/9/1987	sidewall	910	7.4

Trench Samples (S) and Unknown Tank Sample (A) (December 1987)				
S-1	10/13/1987	8.5	260	10
S-2	10/13/1987	8.5	100	5.7
S-3	10/13/1987	8.5	730	3.9
A-1	11/16/1987	10.5	950	21

Well Installations (1988 to 1991)				
S-6	11/3/1988	4	510	2
S-6	11/3/1988	9	<5	<0.05
S-7	11/3/1988	4	55	<0.05
S-7	11/3/1988	9	12	0.06
S-8	11/3/1988	4	5,600	31
S-8	11/3/1988	9	26	0.24
S-8	11/3/1988	14	<5	0.1
S-8	11/3/1988	19	5	0.11
S-9	11/4/1988	4	2,200	17
S-9	11/4/1988	9	5	0.06
S-10	11/4/1988	9	5	0.06
S-11	11/4/1988	4	<5	<0.05
S-11	11/4/1988	9	<5	<0.05

TABLE 1
HISTORIC SOIL ANALYTICAL DATA

Former Shell Service Station
15275 Washington Boulevard
San Leandro, California

Sample Location	Sample Date	Depth (feet)	TPH-g (mg/kg)	Benzene (mg/kg)
S-12	11/4/1988	4	35	0.49
S-12	11/4/1988	9	5	0.05
S-13	4/26/89	5	31	0.19
S-14	4/26/89	5	16	0.33
S-15	4/26/89	5	<5	<0.0005
S-16	4/25/89	5	1100	3
S-17	4/25/89	5	13	<0.0005
S-18	5/16/91	4.5	<1.0	<0.005

Soil Gas Probe Installations (March 1997)				
SG-3	5/5/97	0 to 4	23	0.26
SG-3	5/5/97	4 to 6	4,200	10
SG-3	5/5/97	6 to 8	3,600	6.3
SG-4	5/5/97	0 to 2	2.0	0.013
SG-4	5/5/97	2 to 4	9.0	0.055
SG-4	5/5/97	4 to 6	410	0.36
SG-4	5/5/97	6 to 8	140	<0.005
SG-7	5/6/97	0 to 2	5.1	0.22
SG-7	5/6/97	2 to 4	27	0.34
SG-7	5/6/97	4 to 6	26	0.31
SG-7	5/6/97	6 to 8	840	<0.005
SG-8	5/6/97	0 to 2	<1.0	<0.005
SG-8	5/6/97	2 to 4	<1.0	<0.005
SG-8	5/6/97	4 to 6	390	<0.005
SG-8	5/7/96	6 to 8	1,200	<0.005

Soil Gas Probe Installations (July 1997)				
SG-10	7/31/97	4	<1	<0.0050
SG-11	7/31/97	4	30	0.11
SG-12	7/31/97	4	7	<0.0050
SG-13	7/31/97	4	<1.0	<0.0050

Well Installation (1998)				
S-19	7/31/98	5	12	<0.0050
S-19	7/31/98	10	11	<0.0050
S-19	7/31/98	15	<1.0	<0.0050
S-19	7/31/98	20	<1.0	<0.0050

Soil Borings (06/2010)				
SB-1	06/21/10	16	ND< 0.5	ND< 0.005
SB-2	06/21/10	12	0.53	ND< 0.005
SB-2	06/21/10	50	ND< 0.5	ND< 0.005
SB-3	06/22/10	16	ND< 0.5	ND< 0.005
SB-3	06/22/10	50	ND< 0.5	ND< 0.005
SB-4	06/22/10	8	ND< 0.5	ND< 0.005

TABLE 1
HISTORIC SOIL ANALYTICAL DATA

Former Shell Service Station
15275 Washington Boulevard
San Leandro, California

Sample Location	Sample Date	Depth (feet)	TPH-g (mg/kg)	Benzene (mg/kg)
SB-4	06/22/10	12	ND< 0.5	ND< 0.005
SB-5	06/22/10	8	ND< 0.5	ND< 0.005
SB-5	06/22/10	12	ND< 0.5	ND< 0.005
SB-6	06/22/10	8	3.7	ND< 0.005
SB-6	06/22/10	12	0.95	ND< 0.005
SB-7	06/21/10	10	ND< 0.5	ND< 0.005
SB-7	06/21/10	14	ND< 0.5	ND< 0.005
SB-8	06/21/10	6	280	ND< 0.5
SB-8	06/21/10	14	ND< 0.5	ND< 0.005
SB-9	06/22/10	8	ND< 0.5	ND< 0.005
SB-9	06/22/10	12	ND< 0.5	ND< 0.005
SB-10	06/21/10	12	ND< 50	ND< 0.5
SB-10	06/21/10	16	ND< 0.5	ND< 0.005
SB-11	06/22/10	8	70	ND< 0.5
SB-11	06/22/10	24	ND< 0.5	ND< 0.005
SB-12	06/22/10	8	1,100	ND< 2
SB-12	06/22/10	12	ND< 0.5	ND< 0.005
SB-13	06/22/10	10	1.8	ND< 0.005
SB-13	06/22/10	12	ND< 0.5	ND< 0.005
SB-14	06/22/10	6	290	ND< 0.5
SB-14	06/22/10	12	ND< 0.5	ND< 0.005

Notes:

S-A through S-D data from Gettler-Ryan, Inc. Figure "Generalized Profile of Subsurface Tank Complex and Gasoline Concentrations Within Backfill Material"

S and SG data from Enviro (June 24, 1997, Plate 3)

ND = Not detected above the laboratory reporting limit (shown)

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-1	7/8/1985	520	NA	NA	NA	NA	NA	NA	21.55	NA	NA	NA	NA
S-1	9/6/1988	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA	NA
S-1	11/16/1988	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	8.01	13.54	NA	NA
S-1	2/27/1989	<50	0.5	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA	NA
S-1	5/4/1989	<50	1.0	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA	NA
S-1	8/10/1989	<50	0.7	<1	<1	<0.3	NA	NA	21.55	7.93	13.62	NA	NA
S-1	10/10/1989	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	8.09	13.46	NA	NA
S-1	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.55	7.73	13.82	NA	NA
S-1	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.55	7.91	13.64	NA	NA
S-1	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.55	7.72	13.83	NA	NA
S-1	10/18/1990	80	5	<0.5	<0.5	3.0	NA	NA	21.55	8.55	13.00	NA	NA
S-1	1/28/1991	<50	4.5	<0.5	<0.5	2.0	NA	NA	21.55	8.52	13.03	NA	NA
S-1	4/25/1991	80a	3.7	<0.5	0.7	2.0	NA	NA	21.55	7.18	14.37	NA	NA
S-1	7/9/1991	200	16	<0.5	1.3	5.8	NA	NA	21.55	8.22	13.33	NA	NA
S-1	10/8/1991	<50	2.3	<0.5	<0.5	<0.5	NA	NA	21.55	8.70	12.85	NA	NA
S-1	2/5/1992	160	8.9	<0.5	2.1	6.0	NA	NA	21.55	8.14	13.41	NA	NA
S-1	4/28/1992	<50	2.4	<0.5	<0.5	0.9	NA	NA	21.55	7.52	14.03	NA	NA
S-1	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.55	8.28	13.27	NA	NA
S-1	10/26/1992	57	3.0	1.6	1.4	1.7	NA	NA	21.55	8.74	12.81	NA	NA
S-1	1/14/1993	490	53	1.2	20	33	NA	NA	21.55	5.91	15.64	NA	NA
S-1	4/16/1993	240	20	<0.5	15	240	NA	NA	21.55	6.66	14.89	NA	NA
S-1	7/23/1993	<50	0.5	<0.5	<0.5	<0.5	NA	NA	21.55	7.53	14.02	NA	NA
S-1	10/27/1993	60	5.9	<0.5	2.5	1.7	NA	NA	21.55	8.20	13.35	NA	NA
S-1	1/27/1994	<50	2.1	<0.5	<0.5	0.63	NA	NA	21.55	7.26	14.29	NA	NA
S-1	5/5/1994	57	3.9	<0.5	1.9	1.9	NA	NA	21.27	7.38	13.89	NA	NA
S-1	7/26/1994	<50	2.2	<0.3	<0.3	<0.6	NA	NA	21.27	7.86	13.41	NA	NA
S-1	10/28/1994	<50	0.8	<0.3	<0.3	0.8	NA	NA	21.27	7.86	13.41	NA	NA
S-1	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.27	6.85	14.42	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-1	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.27	6.08	15.19	NA	NA
S-1	7/28/1995	60	2.2	<0.5	1.3	1.2	NA	NA	21.27	6.79	14.48	NA	NA
S-1	10/17/1995	60	2.6	<0.5	1.2	1.3	NA	NA	21.27	7.04	14.23	NA	NA
S-1	1/11/1996	<50	2.0	<0.5	<0.5	<0.5	<2	NA	21.27	6.40	14.87	NA	NA
S-1	4/2/1996	NA	NA	NA	NA	NA	NA	NA	21.27	5.84	15.43	NA	NA
S-1	7/9/1996	NA	NA	NA	NA	NA	NA	NA	21.27	6.50	14.77	NA	NA
S-1	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.27	7.31	13.96	NA	NA
S-1	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	6.7	NA	21.27	5.50	15.77	NA	NA
S-1	4/8/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.03	14.24	NA	NA
S-1	7/21/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.00	14.27	NA	NA
S-1	10/8/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.51	13.76	NA	NA
S-1	1/15/1998	420	16	<0.50	4.6	3.9	26	NA	21.27	5.43	15.84	NA	NA
S-1	4/14/1998	NA	NA	NA	NA	NA	NA	NA	21.27	5.55	15.72	NA	NA
S-1	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.33	6.38	14.95	NA	NA
S-1	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.33	7.48	13.85	NA	NA
S-1	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.53	NA	21.33	6.37	14.96	NA	NA
S-1	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.33	5.93	15.40	NA	NA
S-1	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.33	7.20	14.13	NA	NA
S-1	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.33	7.61	13.72	NA	NA
S-1	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	4.73	NA	21.33	7.76	13.57	NA	NA
S-1	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.33	6.35	14.98	NA	NA
S-1	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.33	7.05	14.28	NA	NA
S-1	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.33	6.51	14.82	NA	NA
S-1	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.33	7.49	13.84	NA	NA
S-1	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.33	6.85	14.48	NA	NA
S-1	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.33	7.65	13.68	NA	NA
S-1	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.33	7.84	13.49	NA	NA
S-1	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.33	6.16	15.17	NA	NA
S-1	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.33	6.57	14.76	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-1	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.33	7.52	13.81	NA	NA
S-1	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.33	7.99	13.34	NA	NA
S-1	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	5.6	21.33	6.46	14.87	NA	NA
S-1	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.33	6.18	15.15	NA	NA
S-1	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.33	7.38	13.95	NA	NA
S-1	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.33	7.87	13.46	NA	NA
S-1	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.33	6.90	14.43	NA	NA
S-1	7/13/2004	NA	NA	NA	NA	NA	NA	NA	21.33	7.83	13.50	NA	NA
S-1	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.33	5.68	15.65	NA	NA
S-1	7/19/2005	NA	NA	NA	NA	NA	NA	NA	21.33	6.35	14.98	NA	NA
S-1	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	21.33	6.05	15.28	NA	NA
S-1	7/25/2006	NA	NA	NA	NA	NA	NA	NA	21.33	7.12	14.21	NA	NA
S-1	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.33	6.75	14.58	NA	NA
S-1	7/24/2007	NA	NA	NA	NA	NA	NA	NA	21.33	7.73	13.60	NA	NA
S-1	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	21.33	6.10	15.23	NA	NA
S-1	8/4/2008	NA	NA	NA	NA	NA	NA	NA	21.33	7.76	13.57	NA	NA
S-1	1/8/2009	<50	0.57	<1.0	<1.0	<1.0	NA	NA	21.33	7.28	14.05	NA	NA
S-1	7/21/2009	NA	NA	NA	NA	NA	NA	NA	21.33	7.89	13.44	NA	NA
S-1	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.33	6.98	14.35	NA	NA
S-1	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	21.33	7.47	13.86	NA	NA

S-3	9/6/1988	96000	3400	9500	2700	17000	NA	NA	21.14	NA	NA	NA	NA
S-3	11/16/1988	70000	4600	8400	2500	13000	NA	NA	21.14	7.76	13.38	NA	NA
S-3	2/27/1989	32000	2400	3100	1500	6400	NA	NA	21.14	NA	NA	NA	NA
S-3	5/4/1989	47000	4400	300	2400	15000	NA	NA	21.14	NA	NA	NA	NA
S-3	8/10/1989	110000	5700	5700	3200	19000	NA	NA	21.14	7.92	13.22	NA	NA
S-3	10/10/1989	52000	4600	3300	2600	15000	NA	NA	21.14	8.00	13.14	NA	NA
S-3	1/25/1990	420000	5200	4100	6700	34000	NA	NA	21.14	7.54	13.60	NA	NA
S-3	4/18/1990	58000	3800	1400	2400	12000	NA	NA	21.14	7.74	13.40	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-3	7/23/1990	49000	3400	1800	2300	12000	NA	NA	21.14	7.55	13.59	NA	NA
S-3	10/18/1990	44000	3500	650	2400	11000	NA	NA	21.14	8.47	12.67	NA	NA
S-3	1/28/1991	64000	40900	570	1940	8090	NA	NA	21.14	8.38	12.76	NA	NA
S-3	4/25/1991	120000	3900	3600	2400	8900	NA	NA	21.14	6.91	14.23	NA	NA
S-3	7/9/1991	50000	3600	2300	1800	10000	NA	NA	21.14	8.07	13.07	NA	NA
S-3	10/8/1991	130000	3600	1000	2800	8400	NA	NA	21.14	8.61	12.53	NA	NA
S-3	2/5/1992	150000	2500	670	2700	10000	NA	NA	21.14	7.80	13.34	NA	NA
S-3	4/28/1992	120000	2200	1200	2000	5800	NA	NA	21.14	7.27	13.87	NA	NA
S-3	7/27/1992	190000	1400	<1250	<1250	3400	NA	NA	21.14	8.10	13.04	NA	NA
S-3	10/26/1992	950000	2000	8400	16000	36000	NA	NA	21.14	8.62	12.52	NA	NA
S-3	1/14/1993	41000	2700	2500	1800	6900	NA	NA	21.14	5.16	15.98	NA	NA
S-3	4/16/1993	40000	930	2800	1900	14000	NA	NA	21.14	7.18	13.96	NA	NA
S-3	7/23/1993	87000	1600	<5	1300	4000	NA	NA	21.14	7.34	13.80	NA	NA
S-3	10/27/1993	36000	2200	<500	1500	3200	NA	NA	21.14	8.03	13.11	NA	NA
S-3	1/27/1994	190000	3200	3100	4100	15000	NA	NA	21.14	6.79	14.35	NA	NA
S-3	5/5/1994	36000	1100	490	1600	4700	NA	NA	20.48	6.75	13.73	NA	NA
S-3	7/26/1994	18000	1039	170.5	845.4	967.5	NA	NA	20.48	7.30	13.18	NA	NA
S-3	10/28/1994	25869	467.9	294	546.2	343.3	NA	NA	20.48	8.36	12.12	NA	NA
S-3	1/2/1995	23000	850	260	900	2100	NA	NA	20.48	6.36	14.12	NA	NA
S-3	4/14/1995	33000	720	670	1600	6600	NA	NA	20.48	5.87	14.61	NA	NA
S-3	7/28/1995	12000	540	<10	580	780	NA	NA	20.48	6.33	14.15	NA	NA
S-3	10/17/1995	Well inaccessible		NA	NA	NA	NA	NA	20.48	6.48	14.00	NA	NA
S-3	1/11/1996	16000	520	290	740	2600	<200	NA	20.48	5.80	14.68	NA	NA
S-3	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.48	5.00	15.48	NA	NA
S-3	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.48	5.93	14.55	NA	NA
S-3	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.48	6.73	13.75	NA	NA
S-3	1/9/1997	30000	420	330	1500	6300	<500	NA	20.48	4.72	15.76	NA	NA
S-3	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.63	13.85	NA	NA
S-3	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.18	14.30	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-3	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.83	13.65	NA	NA
S-3	1/15/1998	21000	300	51	770	2800	<100	NA	20.48	4.30	16.18	NA	NA
S-3 (D)	1/15/1998	14000	330	63	920	3400	<250	NA	20.48	NA	NA	NA	NA
S-3	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.48	4.37	16.11	NA	NA
S-3	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.48	5.47	15.01	NA	NA
S-3	10/20/1998	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	1/22/1999	40000	313	194	2200	8800	<40.0	NA	20.48	5.71	14.77	NA	NA
S-3	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.48	4.95	15.53	NA	NA
S-3	7/23/1999	NA	NA	NA	NA	NA	NA	NA	20.48	6.78	13.70	NA	NA
S-3	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.48	7.25	13.23	NA	NA
S-3	1/3/2000	39700	150	61.8	1690	7720	445	NA	20.48	7.46	13.02	NA	NA
S-3	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.48	5.64	14.84	NA	NA
S-3	7/12/2000	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.48	6.72	13.76	NA	NA
S-3	1/3/2001	25000	89.0	<50.0	1270	5180	<250	NA	20.48	7.14	13.34	NA	NA
S-3	4/24/2001	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	7/2/2001	NA	NA	NA	NA	NA	NA	NA	20.48	7.28	13.20	NA	3.2
S-3	11/2/2001	NA	NA	NA	NA	NA	NA	NA	20.48	7.64	12.84	NA	3.5
S-3	1/16/2002	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA	NA
S-3	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.48	5.99	14.49	NA	3.8
S-3	7/11/2002	NA	NA	NA	NA	NA	NA	NA	20.48	7.21	13.27	NA	0.7
S-3	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.85	7.90	12.95	NA	e
S-3	1/23/2003	28000	60	13	970	3700	NA	<50	20.85	6.00	14.85	NA	0.3
S-3	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.85	5.34	15.51	NA	1.0
S-3	7/1/2003	NA	NA	NA	NA	NA	NA	NA	20.85	7.28	13.57	NA	1.0
S-3	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.85	7.63	13.22	NA	26.9
S-3	1/22/2004	3200	5.7	<2.5	16	320	NA	NA	20.85	6.53	14.32	NA	0.5
S-3	7/13/2004	Well inaccessible		NA	NA	NA	NA	NA	20.85	NA	NA	NA	NA
S-3	7/21/2004	3100	4.1	<2.5	10	130	NA	NA	20.85	7.64	13.21	NA	2.2

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-3	1/20/2005	93	<0.50	<0.50	1.3	1.8	NA	NA	20.85	5.78	15.07	NA	0.8
S-3	7/19/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.85	6.35	14.50	NA	NA
S-3	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.85	5.55	15.30	NA	NA
S-3	7/25/2006	100	<1.00	<1.00	<1.00	<3.00	NA	NA	20.85	7.09	13.76	NA	NA
S-3	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.85	6.53	14.32	NA	NA
S-3	7/24/2007	590 g,h	0.99	<1.0	0.25 i	0.99 i	NA	NA	20.85	7.44	13.41	NA	NA
S-3	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	5.41	15.44	NA	NA
S-3	8/4/2008	76	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	6.62	14.23	NA	NA
S-3	1/8/2009	260	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	6.87	13.98	NA	NA
S-3	7/21/2009	90	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	7.64	13.21	NA	NA
S-3	07/21/2009 *	150	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	7.64	13.21	NA	NA
S-3	01/12/2010 *	130	0.83	<1.0	<1.0	<1.0	NA	NA	20.85	6.63	14.22	NA	NA
S-3	07/22/2010 *	81	<0.50	<1.0	<1.0	<1.0	NA	NA	20.85	7.29	13.56	NA	NA

S-5	1/8/1987	7800	380	510	NA	1000	NA	NA	21.41	NA	NA	NA	NA
S-5	9/6/1988	7000	2600	60	400	700	NA	NA	21.41	NA	NA	NA	NA
S-5	11/16/1988	3000	660	60	120	220	NA	NA	21.41	NA	NA	NA	NA
S-5	2/27/1989	5700	2000	220	260	320	NA	NA	21.41	NA	NA	NA	NA
S-5	5/4/1989	9000	3000	600	630	1700	NA	NA	21.41	NA	NA	NA	NA
S-5	8/10/1989	5100	1100	<50	270	400	NA	NA	21.41	8.28	13.13	NA	NA
S-5	10/10/1989	15000	3300	160	830	2200	NA	NA	21.41	8.32	13.09	NA	NA
S-5	1/25/1990	12000	2400	360	570	1400	NA	NA	21.41	8.20	13.21	NA	NA
S-5	4/18/1990	5200	1100	40	300	460	NA	NA	21.41	8.32	13.09	NA	NA
S-5	7/23/1990	5500	1300	140	320	730	NA	NA	21.41	8.03	13.38	NA	NA
S-5	10/18/1990	12000	3200	40	720	900	NA	NA	21.41	9.03	12.38	NA	NA
S-5	1/28/1991	2550	410	15	110	60	NA	NA	21.41	8.80	12.61	NA	NA
S-5	4/25/1991	67000	5100	3100	2800	11000	NA	NA	21.41	7.40	14.01	NA	NA
S-5	7/9/1991	4900	480	36	360	1000	NA	NA	21.41	8.52	12.89	NA	NA
S-5	10/8/1991	6600	370	7.0	190	380	NA	NA	21.41	9.00	12.41	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-5	2/5/1992	44000	4800	850	2700	8400	NA	NA	21.41	8.11	13.30	NA	NA
S-5	4/28/1992	33000	1400	320	1600	5200	NA	NA	21.41	7.70	13.71	NA	NA
S-5	7/27/1992	20000	2400	<25	1800	2300	NA	NA	21.41	8.52	12.89	NA	NA
S-5	10/26/1992	21000	1600	140	1500	2800	NA	NA	21.41	9.02	12.39	NA	NA
S-5	1/14/1993	54000	1900	1000	2700	16000	NA	NA	21.41	5.22	16.19	NA	NA
S-5	4/16/1993	42000	2000	1300	4300	18000	NA	NA	21.41	7.04	14.37	NA	NA
S-5	7/23/1993	46000	2500	2200	3400	11000	NA	NA	21.41	7.75	13.66	NA	NA
S-5	10/27/1993	6500	990	31	1100	1000	NA	NA	21.41	8.49	12.92	NA	NA
S-5	1/27/1994	34000	1800	580	2900	9700	NA	NA	21.41	7.04	14.37	NA	NA
S-5	5/5/1994	24000	670	70	1400	2700	NA	NA	21.03	7.20	13.83	NA	NA
S-5	7/27/1994	4700	193.6	33.1	332.3	281.2	NA	NA	21.03	7.72	13.31	NA	NA
S-5	10/28/1994	3200	167.3	18	238.7	104.5	NA	NA	21.03	7.82	13.21	NA	NA
S-5	1/2/1995	18000	1300	220	3400	10000	NA	NA	21.03	6.65	14.38	NA	NA
S-5	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.03	5.99	15.04	NA	NA
S-5	7/28/1995	25000	440	74	1700	4500	NA	NA	21.03	6.77	14.26	NA	NA
S-5 (D)	7/28/1995	25000	450	<50	1700	4600	NA	NA	21.03	NA	NA	NA	NA
S-5	10/17/1995	18000	360	24	1300	2200	NA	NA	21.03	7.00	14.03	NA	NA
S-5	1/11/1996	41000	420	180	1600	9500	<200	NA	21.03	6.22	14.81	NA	NA
S-5	4/2/1996	NA	NA	NA	NA	NA	NA	NA	21.03	5.44	15.59	NA	NA
S-5	7/9/1996	NA	NA	NA	NA	NA	NA	NA	21.03	6.41	14.62	NA	NA
S-5	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.03	7.19	13.84	NA	NA
S-5	1/9/1997	38000	130	43	160	6200	<125	NA	21.03	5.03	16.00	NA	NA
S-5 (D)	1/9/1997	36000	130	<50	160	5600	<250	NA	21.03	NA	NA	NA	NA
S-5	4/8/1997	NA	NA	NA	NA	NA	NA	NA	21.03	7.20	13.83	NA	NA
S-5	7/21/1997	NA	NA	NA	NA	NA	NA	NA	21.03	6.82	14.21	NA	NA
S-5	10/8/1997	NA	NA	NA	NA	NA	NA	NA	21.03	7.31	13.72	NA	NA
S-5	1/15/1998	49000	62	<50	93	4100	<250	NA	21.03	4.58	16.45	NA	NA
S-5	4/14/1998	NA	NA	NA	NA	NA	NA	NA	21.03	4.94	16.09	NA	NA
S-5	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.27	5.36	15.91	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-5	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.27	7.53	13.74	NA	NA
S-5	1/22/1999	2550	9.09	<0.500	1.93	112	4.40	NA	21.27	6.35	14.92	NA	NA
S-5	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.27	5.37	15.90	NA	NA
S-5	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.27	6.43	14.84	NA	NA
S-5	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.27	7.51	13.76	NA	NA
S-5	1/3/2000	3310	39.0	<10.0	293	21.7	<50.0	NA	21.27	7.78	13.49	NA	NA
S-5	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.27	6.15	15.12	NA	NA
S-5	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.27	7.05	14.22	NA	NA
S-5	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.27	6.00	15.27	NA	NA
S-5	1/3/2001	516	3.65	0.968	18.0	4.02	18.4	NA	21.27	7.48	13.79	NA	NA
S-5	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.27	6.58	14.69	NA	NA
S-5	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.27	7.60	13.67	NA	NA
S-5	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.27	7.94	13.33	NA	NA
S-5	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.27	5.88	15.39	NA	NA
S-5	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.27	6.27	15.00	NA	NA
S-5	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.27	7.53	13.74	NA	NA
S-5	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.27	8.11	13.16	NA	NA
S-5	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.27	6.22	15.05	NA	NA
S-5	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.27	5.48	15.79	NA	NA
S-5	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.27	7.32	13.95	NA	NA
S-5	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.27	7.91	13.36	NA	NA
S-5	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.27	6.68	14.59	NA	NA
S-5	7/13/2004	NA	NA	NA	NA	NA	NA	NA	21.27	8.17	13.10	NA	NA
S-5	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.27	5.30	15.97	NA	NA
S-5	7/19/2005	NA	NA	NA	NA	NA	NA	NA	21.27	6.35	14.92	NA	NA
S-5	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	21.27	5.83	15.44	NA	NA
S-5	7/25/2006	NA	NA	NA	NA	NA	NA	NA	21.27	7.35	13.92	NA	NA
S-5	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.27	6.82	14.45	NA	NA
S-5	7/24/2007	NA	NA	NA	NA	NA	NA	NA	21.27	7.70	13.57	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-5	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	21.27	5.83	15.44	NA	NA
S-5	8/4/2008	NA	NA	NA	NA	NA	NA	NA	21.27	8.04	13.23	NA	NA
S-5	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.27	7.21	14.06	NA	NA
S-5	7/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.27	8.03	13.24	NA	NA
S-5	07/21/2009 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.27	8.03	13.24	NA	NA
S-5	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.27	7.13	14.14	NA	NA
S-5	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	21.27	7.50	13.77	NA	NA

S-6	11/16/1988	50	0.7	<1	<1	<3	NA	NA	22.02	8.58	13.44	NA	NA
S-6	2/27/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	NA	NA	NA	NA
S-6	5/4/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	NA	NA	NA	NA
S-6	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	8.54	13.48	NA	NA
S-6	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	8.58	13.44	NA	NA
S-6	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	22.02	8.31	13.71	NA	NA
S-6	4/18/1990	<50	<0.5	0.6	<0.5	1.0	NA	NA	22.02	8.43	13.59	NA	NA
S-6	7/23/1990	<50	<0.5	0.9	<0.5	1.8	NA	NA	22.02	8.24	13.78	NA	NA
S-6	10/18/1990	<50	<0.5	0.7	<0.5	0.8	NA	NA	22.02	9.20	12.82	NA	NA
S-6	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	9.10	12.92	NA	NA
S-6	4/25/1991	<50	<0.5	<0.5	<0.5	0.7	NA	NA	22.02	7.74	14.28	NA	NA
S-6	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	8.81	13.21	NA	NA
S-6	10/8/1991	<50	0.7	<0.5	<0.5	<0.5	NA	NA	22.02	9.26	12.76	NA	NA
S-6	2/2/1992	NA	NA	NA	NA	NA	NA	NA	22.02	8.47	13.55	NA	NA
S-6	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	7.91	14.11	NA	NA
S-6	7/27/1992	NA	NA	NA	NA	NA	NA	NA	22.02	8.83	13.19	NA	NA
S-6	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	9.29	12.73	NA	NA
S-6	1/13/1994	NA	NA	NA	NA	NA	NA	NA	22.02	9.43	12.59	NA	NA
S-6	4/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	7.12	14.90	NA	NA
S-6	7/23/1993	NA	NA	NA	NA	NA	NA	NA	22.02	8.14	13.88	NA	NA
S-6	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	8.75	13.27	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-6	1/27/1994	NA	NA	NA	NA	NA	NA	NA	22.02	7.87	14.15	NA	NA
S-6	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.40	7.71	13.69	NA	NA
S-6	7/26/1994	NA	NA	NA	NA	NA	NA	NA	21.40	8.10	13.30	NA	NA
S-6	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.40	8.04	13.36	NA	NA
S-6	1/2/1995	NA	NA	NA	NA	NA	NA	NA	21.40	7.07	14.33	NA	NA
S-6	4/14/1995	<50	<0.5	1.3	<0.5	<0.5	NA	NA	21.40	6.29	15.11	NA	NA
S-6	7/28/1995	NA	NA	NA	NA	NA	NA	NA	21.40	6.91	14.49	NA	NA
S-6	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.40	7.20	14.20	NA	NA
S-6	1/11/1996	NA	NA	NA	NA	NA	NA	NA	21.40	6.60	14.80	NA	NA
S-6	1/22/2004	Unable to locate		NA	NA	NA	NA	NA	21.40	NA	NA	NA	NA

S-7	11/16/1988	100	5.1	15	2.0	13	NA	NA	21.47	8.24	13.23	NA	NA
S-7	2/27/1989	50	0.5	3.0	1.0	11	NA	NA	21.47	NA	NA	NA	NA
S-7	5/4/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	NA	NA	NA	NA
S-7	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	8.18	13.29	NA	NA
S-7	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	8.35	13.12	NA	NA
S-7	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.47	7.95	13.52	NA	NA
S-7	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.47	8.06	13.41	NA	NA
S-7	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.89	13.58	NA	NA
S-7	10/18/1990	<50	<0.5	0.5	0.5	4.1	NA	NA	21.47	8.83	12.64	NA	NA
S-7	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.77	12.70	NA	NA
S-7	4/25/1991	60	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.25	14.22	NA	NA
S-7	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.41	13.06	NA	NA
S-7	10/8/1991	NA	NA	NA	NA	NA	NA	NA	21.47	8.95	12.52	NA	NA
S-7	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.04	13.43	NA	NA
S-7	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.95	12.52	NA	NA
S-7	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.45	14.02	NA	NA
S-7	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.48	12.99	NA	NA
S-7	10/26/1992	570	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	9.95	11.52	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-7	1/14/1993	56	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	5.84	15.63	NA	NA
S-7	4/16/1993	110	28	<0.5	<0.5	1.8	NA	NA	21.47	6.38	15.09	NA	NA
S-7	7/23/1993	80	0.48	<0.5	<0.5	0.8	NA	NA	21.47	7.72	13.75	NA	NA
S-7	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.79	13.68	NA	NA
S-7	1/27/1994	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.85	13.62	NA	NA
S-7	5/5/1994	92	2.1	<0.5	<0.5	<0.5	NA	NA	20.85	9.45	11.40	NA	NA
S-7	7/26/1994	88	<0.3	<0.3	<0.3	<0.6	NA	NA	20.85	7.64	13.21	NA	NA
S-7	10/28/1994	60	<0.3	0.5	<0.3	<0.6	NA	NA	20.85	7.68	13.17	NA	NA
S-7	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.85	6.95	13.90	NA	NA
S-7	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.85	5.82	15.03	NA	NA
S-7	7/28/1995	170	1.7	<0.5	<0.5	2.2	NA	NA	20.85	6.32	14.53	NA	NA
S-7	10/17/1995	100	<0.5	0.6	<0.5	<0.5	NA	NA	20.85	7.07	13.78	NA	NA
S-7	1/11/1996	80	0.6	<0.5	<0.5	<0.5	54	NA	20.85	6.10	14.75	NA	NA
S-7	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.14	14.71	NA	NA
S-7	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.40	14.45	NA	NA
S-7	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.70	14.15	NA	NA
S-7	1/9/1997	130	1.4	<0.50	<0.50	0.56	70	NA	20.85	5.25	15.60	NA	NA
S-7	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.85	7.15	13.70	NA	NA
S-7	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.85	6.67	14.18	NA	NA
S-7	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.85	7.26	13.59	NA	NA
S-7	1/15/1998	<50	<0.50	<0.50	<0.50	<0.50	39	NA	20.85	5.51	15.34	NA	NA
S-7	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.85	5.45	15.40	NA	NA
S-7	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.03	6.48	14.55	NA	NA
S-7	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.03	7.37	13.66	NA	NA
S-7	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	97.8	NA	21.03	6.21	14.82	NA	NA
S-7	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.03	5.30	15.73	NA	NA
S-7	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.03	7.12	13.91	NA	NA
S-7	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.03	7.54	13.49	NA	NA
S-7	1/3/2000	615	8.73	2.90	4.00	7.17	17.0	NA	21.03	7.73	13.30	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-7	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.03	6.27	14.76	NA	NA
S-7	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.03	6.97	14.06	NA	NA
S-7	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.03	6.43	14.60	NA	NA
S-7	1/3/2001	460	6.68	<0.500	0.712	0.596	10.2	NA	21.03	7.27	13.76	NA	NA
S-7	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.03	6.75	14.28	NA	NA
S-7	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.03	7.55	13.48	NA	NA
S-7	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.03	7.80	13.23	NA	NA
S-7	1/16/2002	360	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.03	6.11	14.92	NA	NA
S-7	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.03	6.54	14.49	NA	NA
S-7	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.03	7.37	13.66	NA	NA
S-7	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.01	7.97	13.04	NA	NA
S-7	1/23/2003	160	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.01	6.45	14.56	NA	NA
S-7	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.01	6.14	14.87	NA	NA
S-7	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.01	7.28	13.73	NA	NA
S-7	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.01	7.78	13.23	NA	NA
S-7	1/22/2004	140	<0.50	<0.50	0.51	<1.0	NA	NA	21.01	6.93	14.08	NA	NA
S-7	7/13/2004	150	<0.50	<0.50	<0.50	<1.0	NA	17	21.01	7.88	13.13	NA	NA
S-7	1/20/2005	200 a	<0.50	<0.50	<0.50	<1.0	NA	NA	21.01	5.68	15.33	NA	NA
S-7	7/19/2005	140 a	<0.50	<0.50	<0.50	<1.0	NA	NA	21.01	6.18	14.83	NA	NA
S-7	1/27/2006	69.8	<0.500	<0.500	<0.500	<0.500	NA	NA	21.01	6.11	14.90	NA	NA
S-7	7/25/2006	78.6	<1.00	<1.00	<1.00	<3.00	NA	NA	21.01	7.01	14.00	NA	NA
S-7	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.01	6.70	14.31	NA	NA
S-7	7/24/2007	63 g,h	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.54	13.47	NA	NA
S-7	1/15/2008	160 g,h	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	6.08	14.93	NA	NA
S-7	8/4/2008	72	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.78	13.23	NA	NA
S-7	1/8/2009	210	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.12	13.89	NA	NA
S-7	7/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.78	13.23	NA	NA
S-7	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	6.83	14.18	NA	NA
S-7	07/22/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.01	7.20	13.81	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-8	11/16/1988	210	5.0	<1	1.0	5.0	NA	NA	20.72	7.76	12.96	NA	NA
S-8	2/27/1989	<50	2.4	<1	<1	<3	NA	NA	20.72	NA	NA	NA	NA
S-8	5/4/1989	<50	7.5	<1	2.0	<3	NA	NA	20.72	NA	NA	NA	NA
S-8	8/10/1989	<50	0.6	<1	<1	<3	NA	NA	20.72	7.79	12.93	NA	NA
S-8	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.72	7.84	12.88	NA	NA
S-8	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.72	7.47	13.25	NA	NA
S-8	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.72	7.59	13.13	NA	NA
S-8	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	7.49	13.23	NA	NA
S-8	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.44	12.28	NA	NA
S-8	1/28/1991	<50	55	0.5	<0.5	1.4	NA	NA	20.72	8.28	12.44	NA	NA
S-8	4/25/1991	130a	19	<0.5	1.3	1.1	NA	NA	20.72	6.72	14.00	NA	NA
S-8	7/9/1991	200	33	<0.5	1.8	2.8	NA	NA	20.72	7.98	12.74	NA	NA
S-8	10/8/1991	580	95	2.2	4.9	6.5	NA	NA	20.72	8.55	12.17	NA	NA
S-8	2/5/1992	90a	18	<0.5	6.2	1.8	NA	NA	20.72	7.50	13.22	NA	NA
S-8	4/28/1992	<50	5.9	<0.5	2.5	<0.5	NA	NA	20.72	7.14	13.58	NA	NA
S-8	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.06	12.66	NA	NA
S-8	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.58	12.14	NA	NA
S-8	1/14/1993	270	74	0.9	25	5.5	NA	NA	20.72	5.32	15.40	NA	NA
S-8	4/16/1993	1100	420	<0.5	200	20	NA	NA	20.72	5.76	14.96	NA	NA
S-8	7/23/1993	160	23	<0.5	1.2	1.5	NA	NA	20.72	7.29	13.43	NA	NA
S-8	10/27/1993	420	650	0.7	11	1.7	NA	NA	20.72	7.93	12.79	NA	NA
S-8	1/27/1994	290	65	<1	6.9	2.4	NA	NA	20.72	6.31	14.41	NA	NA
S-8	5/5/1994	120	13	<0.5	<0.5	<0.5	NA	NA	20.32	6.84	13.48	NA	NA
S-8	7/26/1994	115	12.2	1.3	<0.3	2.7	NA	NA	20.32	7.42	12.90	NA	NA
S-8	10/28/1994	733	75.9	3.2	4.9	4.2	NA	NA	20.32	7.56	12.76	NA	NA
S-8	1/2/1995	290	54	<0.5	10	<0.5	NA	NA	20.32	6.19	14.13	NA	NA
S-8	4/14/1995	230	68	<0.5	10	2.4	NA	NA	20.32	5.54	14.78	NA	NA
S-8	7/28/1995	290	44	<0.5	8.0	<0.5	NA	NA	20.32	6.28	14.04	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-8	10/17/1995	190	24	<0.5	1.0	0.9	NA	NA	20.32	6.64	13.68	NA	NA
S-8	1/11/1996	400	85	1.1	13	3.4	2.3	NA	20.32	5.96	14.36	NA	NA
S-8	4/2/1996	300	110	0.7	4.9	0.9	<2	NA	20.32	5.21	15.11	NA	NA
S-8	7/9/1996	<50	5.4	<0.50	0.63	<0.50	<2.5	NA	20.32	6.05	14.27	NA	NA
S-8	10/10/1996	150	0.53	0.66	2.3	1.0	8.9	NA	20.32	6.83	13.49	NA	NA
S-8	1/9/1997	240	27	<0.50	2.4	<0.50	5.8	NA	20.32	4.51	15.81	NA	NA
S-8	4/8/1997	220	27	0.62	1.9	0.71	5.7	NA	20.32	6.50	13.82	NA	NA
S-8	7/21/1997	1200	140	2.8	21	5.0	27	NA	20.32	6.36	13.96	NA	NA
S-8 (D)	7/21/1997	1200	120	<2.0	19	3.9	25	NA	20.32	NA	NA	NA	NA
S-8	10/8/1997	690	92	1.4	25	2.0	<2.5	NA	20.32	6.83	13.49	NA	NA
S-8 (D)	10/8/1997	700	95	1.3	26	1.9	<2.5	NA	20.32	NA	NA	NA	NA
S-8	1/15/1998	460	110	1.0	3.4	1.7	<5.0	NA	20.32	4.30	16.02	NA	NA
S-8	4/14/1998	780	190	2.9	15	3.4	<2.5	NA	20.32	4.68	15.64	NA	NA
S-8	7/14/1998	1600	240	<5.0	36	<5.0	<25	NA	20.36	6.36	14.00	NA	NA
S-8	10/20/1998	700	55	<5.0	<5.0	<5.0	49	NA	20.36	6.91	13.45	NA	NA
S-8	1/22/1999	<50.0	5.83	<0.500	0.919	<0.500	<2.00	NA	20.36	5.97	14.39	NA	NA
S-8	4/8/1999	684	10.6	1.3	9.75	1.0	10.5	NA	20.36	5.01	15.35	NA	NA
S-8	7/23/1999	1540	86.5	5.20	5.30	6.35	<25.0	NA	20.36	6.61	13.75	NA	NA
S-8	10/26/1999	1680	116	<2.50	22.4	5.58	<12.5	NA	20.36	6.95	13.41	NA	NA
S-8	1/3/2000	Well inaccessible		NA	NA	NA	NA	NA	20.36	NA	NA	NA	NA
S-8	4/14/2000	Well inaccessible		NA	NA	NA	NA	NA	20.36	NA	NA	NA	NA
S-8	7/12/2000	Well inaccessible		NA	NA	NA	NA	NA	20.36	NA	NA	NA	NA
S-8	11/1/2000	2300	118	12.4	51.7	<2.50	<12.5	NA	20.36	5.68	14.68	NA	NA
S-8	1/3/2001	263	4.34	0.620	<0.500	0.643	5.40	NA	20.36	6.95	13.41	NA	NA
S-8	4/24/2001	680	12	<0.50	0.86	<0.50	NA	<0.50	20.36	6.25	14.11	NA	NA
S-8	7/2/2001	330	2.5	<0.50	0.86	<0.50	NA	<5.0	20.36	7.00	13.36	NA	NA
S-8	11/2/2001	1300	71	0.84	14	1.7	NA	<5.0	20.36	7.44	12.92	NA	NA
S-8	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.36	5.67	14.69	NA	NA
S-8	4/1/2002	330	2.2	<0.50	<0.50	<0.50	NA	<5.0	20.36	5.99	14.37	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-8	7/11/2002	1400	55	0.83	5.3	0.71	NA	<5.0	20.36	6.94	13.42	NA	NA
S-8	10/28/2002	660	6.2	0.63	0.76	<0.50	NA	<0.50	20.36	7.50	12.86	NA	1.1
S-8	1/23/2003	1600	30	0.56	6.7	<0.50	NA	<5.0	20.36	5.99	14.37	NA	NA
S-8	4/30/2003	890	13	<0.50	0.59	<1.0	NA	<5.0	20.36	5.30	15.06	NA	NA
S-8	7/1/2003	1800	68	1.3	2.6	1.2	NA	<0.50	20.36	6.87	13.49	NA	1.0
S-8	10/8/2003	220	1.3	<0.50	<0.50	<1.0	NA	<0.50	20.36	7.27	13.09	NA	NA
S-8	1/22/2004	1000	6.7	<0.50	0.61	<1.0	NA	NA	20.36	6.50	13.86	NA	NA
S-8	7/13/2004	2000	100	1.7	5.7	<2.0	NA	<1.0	20.36	7.41	12.95	NA	NA
S-8	1/20/2005	380	4.3	<0.50	<0.50	<1.0	NA	NA	20.36	5.02	15.34	NA	NA
S-8	7/19/2005	120	1.2	<0.50	<0.50	<1.0	NA	NA	20.36	5.82	14.54	NA	NA
S-8	1/27/2006	494	2.42	<0.500	<0.500	<0.500	NA	NA	20.36	5.51	14.85	NA	NA
S-8	7/25/2006	382	2.05	<1.00	<1.00	<3.00	NA	NA	20.36	6.66	13.70	NA	NA
S-8	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.36	6.13	14.23	NA	NA
S-8	7/24/2007	210 g,h	1.2	<1.0	<1.0	<1.0	NA	NA	20.36	6.92	13.44	NA	NA
S-8	1/15/2008	560 g,h	5.3	<1.0	0.31 i	<1.0	NA	NA	20.36	5.32	15.04	NA	NA
S-8	8/4/2008	200	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.98	13.38	NA	NA
S-8	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.62	13.74	NA	NA
S-8	7/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	7.10	13.26	NA	NA
S-8	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.34	14.02	NA	NA
S-8	07/22/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.78	13.58	NA	NA

S-9	11/16/1988	1400	69	3.0	52	180	NA	NA	20.96	7.78	13.18	NA	NA
S-9	2/27/1989	1600	240	4.0	130	180	NA	NA	20.96	NA	NA	NA	NA
S-9	5/4/1989	2600	470	10	240	480	NA	NA	20.96	NA	NA	NA	NA
S-9	8/10/1989	520	73	<10	40	<30	NA	NA	20.96	7.82	13.14	NA	NA
S-9	10/10/1989	380	82	<1	46	13	NA	NA	20.96	7.87	13.09	NA	NA
S-9	1/25/1990	750	140	1.2	69	75	NA	NA	20.96	7.41	13.55	NA	NA
S-9	4/18/1990	680	150	1.7	50	37	NA	NA	20.96	7.65	13.31	NA	NA
S-9	7/23/1990	490	94	1.2	32	24	NA	NA	20.96	7.58	13.38	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-9	10/18/1990	390	140	0.7	3.3	24	NA	NA	20.96	8.46	12.50	NA	NA
S-9	1/28/1991	1040	450	4.6	85	97	NA	NA	20.96	8.29	12.67	NA	NA
S-9	4/25/1991	5800	880	9.0	360	500	NA	NA	20.96	6.09	14.87	NA	NA
S-9	7/9/1991	1400	220	2.8	82	100	NA	NA	20.96	7.82	13.14	NA	NA
S-9	10/8/1991	890	960	<2.5	16	29	NA	NA	20.96	8.55	12.41	NA	NA
S-9	2/5/1992	950	240	<2.5	28	55	NA	NA	20.96	6.96	14.00	NA	NA
S-9	4/28/1992	1400a	290	3.0	100	81	NA	NA	20.96	6.76	14.20	NA	NA
S-9	7/27/1992	890	190	<2.5	66	68	NA	NA	20.96	8.10	12.86	NA	NA
S-9	10/26/1992	650	160	<2.5	63	89	NA	NA	20.96	8.53	12.43	NA	NA
S-9	1/13/1993	19000	2400	38	1700	2200	NA	NA	20.96	6.80	14.16	NA	NA
S-9	4/16/1993	10000	1500	<5	1100	990	NA	NA	20.96	6.28	14.68	NA	NA
S-9	7/23/1993	1100	400	<5	260	160	NA	NA	20.96	7.26	13.70	NA	NA
S-9	10/27/1993	2500	400	<5	190	110	NA	NA	20.96	8.00	12.96	NA	NA
S-9	1/27/1994	4800	990	16	630	490	NA	NA	20.96	5.96	15.00	NA	NA
S-9	5/5/1994	3700	480	<5	21	120	NA	NA	20.68	6.99	13.69	NA	NA
S-9	7/26/1994	1000	124.6	<0.3	35.8	28.6	NA	NA	20.68	7.56	13.12	NA	NA
S-9	10/28/1994	979	80.3	7.0	21.7	29.2	NA	NA	20.68	7.78	12.90	NA	NA
S-9	1/2/1995	3900	540	2.4	350	150	NA	NA	20.68	6.29	14.39	NA	NA
S-9	4/14/1995	5100	1000	<10	380	230	NA	NA	20.68	5.69	14.99	NA	NA
S-9	7/28/1995	4600	680	<10	120	47	NA	NA	20.68	6.61	14.07	NA	NA
S-9	10/17/1995	1600	150	<0.5	42	15	NA	NA	20.68	7.00	13.68	NA	NA
S-9	1/11/1996	6800	1100	12	720	95	24	NA	20.68	6.20	14.48	NA	NA
S-9	4/2/1996	6000	1300	8.3	430	99	49	NA	20.68	5.19	15.49	NA	NA
S-9 (D)	4/2/1996	6500	1200	8.3	410	90	<20	NA	20.68	NA	NA	NA	NA
S-9	7/9/1996	3400	680	6.7	54	31	<25	NA	20.68	6.43	14.25	NA	NA
S-9 (D)	7/9/1996	3300	730	<5.0	58	28	<25	NA	20.68	NA	NA	NA	NA
S-9	10/10/1996	6600	1200	<10	160	<10	70	NA	20.68	7.08	13.60	NA	NA
S-9 (D)	10/10/1996	6100	1000	<10	200	15	65	NA	20.68	NA	NA	NA	NA
S-9	1/9/1997	12000	1400	<25	1000	39	<125	NA	20.68	5.03	15.65	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-9	4/8/1997	6600	920	10	230	26	150	NA	20.68	6.78	13.90	NA	NA
S-9	7/21/1997	7800	860	13	260	14	87	NA	20.68	6.77	13.91	NA	NA
S-9	10/8/1997	4600	320	<10	61	<10	28	NA	20.68	6.92	13.76	NA	NA
S-9	1/15/1998	9300	1000	<10	730	24	<50	NA	20.68	4.50	16.18	NA	NA
S-9	4/14/1998	12000	1200	<2.5	960	<2.5	<12	NA	20.68	4.35	16.33	NA	NA
S-9 (D)	4/14/1998	12000	1200	<2.5	930	<2.5	<12	NA	20.68	NA	NA	NA	NA
S-9	7/14/1998	12000	1700	<25	990	39	<125	NA	20.68	5.95	14.73	NA	NA
S-9 (D)	7/14/1998	11000	1800	<25	650	<25	<125	NA	20.68	NA	NA	NA	NA
S-9	10/20/1998	14000	1600	<25	560	<25	340	NA	20.68	7.03	13.65	NA	NA
S-9 (D)	10/20/1998	11000	1100	<10	230	<10	100	NA	20.68	NA	NA	NA	NA
S-9	1/22/1999	9900	1030	26.7	819	27.5	46.8	NA	20.68	6.01	14.67	NA	NA
S-9	4/8/1999	17900	1450	<50.0	1610	73.8	<500	NA	20.68	5.25	15.43	NA	NA
S-9	7/23/1999	12200	1020	<20.0	536	<20.0	<200	NA	20.68	6.71	13.97	NA	NA
S-9	10/26/1999	9580	1170	11.9	566	23.1	<50.0	NA	20.68	7.27	13.41	NA	NA
S-9	10/26/1999	9580	1170	11.9	566	23.1	<50.0	NA	20.68	7.27	13.41	NA	NA
S-9	1/3/2000	9660	689	<50.0	640	<50.0	<250	NA	20.68	7.47	13.21	NA	NA
S-9	4/14/2000	14000	1040	<50.0	1210	<50.0	<250	NA	20.68	5.75	14.93	NA	NA
S-9	7/12/2000	13200	1360	33.9	552	26.8	<100	NA	20.68	6.63	14.05	NA	NA
S-9	11/1/2000	9120	928	13.5	468	<10.0	<50.0	NA	20.68	5.50	15.18	NA	NA
S-9	1/3/2001	355	19.8	0.732	2.23	0.630	5.09	NA	20.68	7.11	13.57	NA	NA
S-9	4/24/2001	3500	300	1.7	150	1.7	NA	<1.0	20.68	6.30	14.38	NA	NA
S-9	7/2/2001	88	3.8	<0.50	<0.50	<0.50	NA	<5.0	20.68	8.18	12.50	NA	2.6
S-9	11/2/2001	210	9.5	<0.50	<0.50	<0.50	NA	<5.0	20.68	8.40	12.28	NA	16.4
S-9	1/16/2002	15000	520	4.9	580	7.1	NA	<20	20.68	5.71	14.97	NA	0.5
S-9	4/1/2002	15000	530	5.1	920	7.8	NA	<25	20.68	5.99	14.69	NA	3.0
S-9	7/11/2002	10000	520	5.3	97	5.8	NA	<25	20.68	6.99	13.69	NA	0.5
S-9	10/28/2002	11000	580	6.2	65	5.3	NA	<2.5	20.70	7.63	13.07	NA	1.0
S-9	1/23/2003	9300	400	5.6	320	6.5	NA	<5.0	20.70	5.96	14.74	NA	0.5
S-9	4/30/2003	180	4.2	<0.50	3.7	<1.0	NA	<5.0	20.70	5.20	15.50	NA	7.0

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-9	7/1/2003	2200	71	0.94	6.4	<1.0	NA	<0.50	20.70	7.78	12.92	NA	0.9
S-9	10/8/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.70	7.38	13.32	NA	16.2
S-9	1/22/2004	1400	26	<1.0	14	12	NA	NA	20.70	6.51	14.19	NA	0.7
S-9	7/13/2004	1900	36	<1.0	2.0	<2.0	NA	<1.0	20.70	8.51	12.19	NA	17.1
S-9	1/20/2005	3600	60	1.2	50	<2.0	NA	NA	20.70	5.80	14.90	NA	0.4
S-9	7/19/2005	2800	42	1.4	18	<2.0	NA	NA	20.70	7.50	13.20	NA	NA
S-9	1/27/2006	16800	152	4.74	165	6.77	NA	NA	20.70	6.40	14.30	NA	NA
S-9	7/25/2006	22500	79.3	2.32	27.2	<3.00	NA	NA	20.70	6.92	13.78	NA	NA
S-9	1/4/2007	5800	82	3.2	110	<5.0	NA	NA	20.70	6.40	14.30	NA	NA
S-9	7/24/2007	8900 g,h	91	3.4 i	22	<10	NA	NA	20.70	7.19	13.51	NA	NA
S-9	1/15/2008	11,000 g,h	68	3.5 i	68	4.5 i	NA	NA	20.70	5.20	15.50	NA	NA
S-9	8/4/2008	8,200	50	2.6	12	3.6	NA	NA	20.70	7.38	13.32	NA	NA
S-9	1/8/2009	9,200	40	2.4	29	1.9	NA	NA	20.70	6.73	13.97	NA	NA
S-9	7/21/2009	6,200	26	1.6	7.5	1.3	NA	NA	20.70	7.28	13.42	NA	NA
S-9	07/21/2009 *	9,600	35	2.1	9.2	1.8	NA	NA	20.70	7.28	13.42	NA	NA
S-9	01/12/2010 *	15,000	39	<5.0	26	<5.0	NA	NA	20.70	6.14	14.56	NA	NA
S-9	07/22/2010 *	7,900	21	<5.0	19	<5.0	NA	NA	20.70	6.89	13.81	NA	NA

S-10	11/16/1988	330	0.5	<1	1.0	11	NA	NA	20.86	7.91	12.95	NA	NA
S-10	2/27/1989	140	<0.5	<3	2.0	6.0	NA	NA	20.86	NA	NA	NA	NA
S-10	5/3/1989	220	<0.5	1.0	2.0	7.0	NA	NA	20.86	NA	NA	NA	NA
S-10	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.86	7.94	12.92	NA	NA
S-10	10/9/1989	170	<0.5	<1	<1	<3	NA	NA	20.86	7.99	12.87	NA	NA
S-10	1/25/1990	<50	<0.5	<0.5	1.1	4.0	NA	NA	20.86	7.56	13.30	NA	NA
S-10	4/18/1990	<50	<0.5	0.9	<0.5	2.0	NA	NA	20.86	7.71	13.15	NA	NA
S-10	7/23/1990	590	<0.5	<0.5	1.9	19	NA	NA	20.86	7.64	13.22	NA	NA
S-10	10/18/1990	140	<0.5	0.7	<0.5	7.0	NA	NA	20.86	8.58	12.28	NA	NA
S-10	1/28/1991	<50	<0.5	<0.5	<0.5	0.5	NA	NA	20.86	8.35	12.51	NA	NA
S-10	4/25/1991	<50	<0.5	<0.5	1.1	0.8	NA	NA	20.69	6.91	13.78	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-10	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.14	12.55	NA	NA
S-10	10/8/1991	140	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.70	11.99	NA	NA
S-10	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	7.57	13.12	NA	NA
S-10	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	7.20	13.49	NA	NA
S-10	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.17	12.52	NA	NA
S-10	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.68	12.01	NA	NA
S-10	1/13/1993	88	<0.5	0.6	0.6	<0.5	NA	NA	20.69	3.78	16.91	NA	NA
S-10	4/16/1993	80	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	6.46	14.23	NA	NA
S-10	7/23/1993	<50	1.5	<0.5	0.7	2.7	NA	NA	20.69	7.38	13.31	NA	NA
S-10	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.09	12.60	NA	NA
S-10	1/27/1994	270	1.1	1.3	2.0	7.4	NA	NA	20.69	5.81	14.88	NA	NA
S-10	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.82	13.33	NA	NA
S-10	7/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.15	7.40	12.75	NA	NA
S-10	10/28/1994	<50	2.4	<0.3	0.5	0.8	NA	NA	20.15	7.62	12.53	NA	NA
S-10	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.13	14.02	NA	NA
S-10	4/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	5.60	14.55	NA	NA
S-10	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.44	13.71	NA	NA
S-10	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.85	13.30	NA	NA
S-10	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.15	6.08	14.07	NA	NA
S-10	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.15	5.21	14.94	NA	NA
S-10	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.15	6.20	13.95	NA	NA
S-10	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.15	6.92	13.23	NA	NA
S-10	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.15	4.64	15.51	NA	NA
S-10	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.15	5.82	14.33	NA	NA
S-10	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.15	6.48	13.67	NA	NA
S-10	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.15	5.48	14.67	NA	NA
S-10	1/15/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.15	3.01	17.14	NA	NA
S-10	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.15	4.30	15.85	NA	NA
S-10	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.15	5.84	14.31	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-10	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.15	6.89	13.26	NA	NA
S-10	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.15	6.00	14.15	NA	NA
S-10	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.15	4.41	15.74	NA	NA
S-10	7/23/1999	NA	NA	NA	NA	NA	NA	NA	20.15	6.48	13.67	NA	NA
S-10	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.15	7.07	13.08	NA	NA
S-10	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.15	7.27	12.88	NA	NA
S-10	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.15	5.75	14.40	NA	NA
S-10	7/12/2000	NA	NA	NA	NA	NA	NA	NA	20.15	6.17	13.98	NA	NA
S-10	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.15	5.63	14.52	NA	NA
S-10	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.15	6.89	13.26	NA	NA
S-10	4/24/2001	NA	NA	NA	NA	NA	NA	NA	20.15	6.20	13.95	NA	NA
S-10	7/2/2001	NA	NA	NA	NA	NA	NA	NA	20.15	6.80	13.35	NA	NA
S-10	11/2/2001	NA	NA	NA	NA	NA	NA	NA	20.15	7.40	12.75	NA	NA
S-10	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.15	5.66	14.49	NA	NA
S-10	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.15	5.63	14.52	NA	NA
S-10	7/11/2002	NA	NA	NA	NA	NA	NA	NA	20.15	6.72	13.43	NA	NA
S-10	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.14	7.50	12.64	NA	NA
S-10	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.14	5.97	14.17	NA	NA
S-10	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.14	5.24	14.90	NA	NA
S-10	7/1/2003	NA	NA	NA	NA	NA	NA	NA	20.14	6.82	13.32	NA	NA
S-10	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.14	7.06	13.08	NA	NA
S-10	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.14	6.50	13.64	NA	NA
S-10	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.14	7.49	12.65	NA	NA
S-10	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.14	5.09	15.05	NA	NA
S-10	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.14	6.00	14.14	NA	NA
S-10	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.14	5.61	14.53	NA	NA
S-10	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.14	6.61	13.53	NA	NA
S-10	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.14	6.29	13.85	NA	NA
S-10	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.14	6.82	13.32	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-10	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.14	5.33	14.81	NA	NA
S-10	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.14	6.65	13.49	NA	NA
S-10	1/8/2009	120	<0.50	<1.0	<1.0	<1.0	NA	NA	20.14	6.61	13.53	NA	NA
S-10	7/21/2009	NA	NA	NA	NA	NA	NA	NA	20.14	7.06	13.08	NA	NA
S-10	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.14	6.38	13.76	NA	NA
S-10	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	20.14	6.88	13.26	NA	NA

S-11	11/16/1988	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.62	12.64	NA	NA
S-11	2/27/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	NA	NA	NA	NA
S-11	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	NA	NA	NA	NA
S-11	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.65	12.61	NA	NA
S-11	10/9/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.64	12.62	NA	NA
S-11	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.26	8.43	12.83	NA	NA
S-11	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.26	8.42	12.84	NA	NA
S-11	7/23/1990	<50	<0.5	0.6	<0.5	1.1	NA	NA	21.26	8.23	13.03	NA	NA
S-11	10/18/1990	<50	<0.5	<0.5	<0.5	0.5	NA	NA	21.26	9.20	12.06	NA	NA
S-11	1/28/1991	63	<0.5	3.3	0.9	7.0	NA	NA	21.26	9.13	12.13	NA	NA
S-11	4/25/1991	<50	<0.5	<0.5	0.8	<0.5	NA	NA	21.26	7.53	13.73	NA	NA
S-11	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	8.85	12.41	NA	NA
S-11	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	9.34	11.92	NA	NA
S-11	2/5/1991	NA	NA	NA	NA	NA	NA	NA	21.26	8.50	12.76	NA	NA
S-11	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	7.80	13.46	NA	NA
S-11	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	8.80	12.46	NA	NA
S-11	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	9.42	11.84	NA	NA
S-11	1/13/1993	NA	NA	NA	NA	NA	NA	NA	21.26	6.52	14.74	NA	NA
S-11	4/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	6.86	14.40	NA	NA
S-11	7/23/1993	NA	NA	NA	NA	NA	NA	NA	21.26	8.07	13.19	NA	NA
S-11	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	21.26	NA	NA	NA	NA
S-11	1/27/1994	NA	NA	NA	NA	NA	NA	NA	21.26	NA	NA	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-11	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	7.73	13.51	NA	NA
S-11	7/26/1994	NA	NA	NA	NA	NA	NA	NA	21.24	8.30	12.94	NA	NA
S-11	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.24	8.30	12.94	NA	NA
S-11	1/2/1995	NA	NA	NA	NA	NA	NA	NA	21.24	7.25	13.99	NA	NA
S-11	4/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	6.99	14.25	NA	NA
S-11	7/28/1995	NA	NA	NA	NA	NA	NA	NA	21.24	7.21	14.03	NA	NA
S-11	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	7.41	13.83	NA	NA
S-11	1/11/1996	NA	NA	NA	NA	NA	NA	NA	21.24	6.80	14.44	NA	NA
S-11	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	21.24	7.28	13.96	NA	NA
S-11	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	21.27	NA	NA	NA	NA
S-11	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	0.57	21.27	7.55	13.72	NA	NA

S-12	11/16/1988	50	3.5	<1	<1	<3	NA	NA	21.05	NA	NA	NA	NA
S-12	2/27/1989	<50	0.8	<1	<1	<3	NA	NA	21.05	NA	NA	NA	NA
S-12	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	21.05	NA	NA	NA	NA
S-12	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.05	8.32	12.73	NA	NA
S-12	10/9/1989	<50	<0.5	<1	<1	<1	NA	NA	21.05	8.32	12.73	NA	NA
S-12	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.05	8.18	12.87	NA	NA
S-12	4/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.05	13.00	NA	NA
S-12	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	7.92	13.13	NA	NA
S-12	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.90	12.15	NA	NA
S-12	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.54	12.51	NA	NA
S-12	4/25/1991	90	5.4	<0.5	1.1	0.7	NA	NA	21.05	7.08	13.97	NA	NA
S-12	7/9/1991	<50	2.9	<0.5	<0.5	<0.5	NA	NA	21.05	8.42	12.63	NA	NA
S-12	10/8/1991	50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.80	12.25	NA	NA
S-12	2/5/1992	50a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.07	12.98	NA	NA
S-12	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.33	12.72	NA	NA
S-12	7/27/1992	94	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.55	12.50	NA	NA
S-12	10/26/1992	86	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	9.03	12.02	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-12	1/14/1993	120	2.0	<0.5	<0.5	<0.5	NA	NA	21.05	6.38	14.67	NA	NA
S-12	4/16/1993	60	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	6.56	14.49	NA	NA
S-12	7/23/1993	90	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	7.76	13.29	NA	NA
S-12	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	21.05	NA	NA	NA	NA
S-12	1/27/1994	Well inaccessible		NA	NA	NA	NA	NA	21.05	NA	NA	NA	NA
S-12	5/5/1994	<50	2.0	<0.5	<0.5	<0.5	NA	NA	20.71	7.49	13.22	NA	NA
S-12	7/26/1994	128	<0.3	<0.3	<0.3	<0.6	NA	NA	20.71	7.92	12.79	NA	NA
S-12	10/28/1994	167	<0.3	<0.3	<0.3	<0.6	NA	NA	20.71	7.78	12.93	NA	NA
S-12	1/2/1995	50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	7.33	13.38	NA	NA
S-12	4/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	6.47	14.24	NA	NA
S-12	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	6.90	13.81	NA	NA
S-12	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	7.16	13.55	NA	NA
S-12	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	82	NA	20.71	6.65	14.06	NA	NA
S-12	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	45	NA	20.71	6.95	13.76	NA	NA
S-12	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	20.73	NA	NA	NA	NA
S-12	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	0.58	20.73	7.30	13.43	NA	NA

S-13	5/3/1989	150	4.9	4.0	2.0	14	NA	NA	20.57	NA	NA	NA	NA
S-13	8/10/1989	110	2.9	<1	<1	<3	NA	NA	20.57	8.00	12.57	NA	NA
S-13	10/9/1989	77	1.4	<1	<1	<3	NA	NA	20.57	7.95	12.62	NA	NA
S-13	1/25/1990	51	0.5	<0.5	<0.5	<1	NA	NA	20.57	7.79	12.78	NA	NA
S-13	4/18/1990	85	8.7	<0.5	<0.5	<1	NA	NA	20.57	7.73	12.84	NA	NA
S-13	7/23/1990	80	0.8	<0.5	<0.5	<0.5	NA	NA	20.57	7.63	12.94	NA	NA
S-13	10/18/1990	130	<0.5	<0.5	<0.5	<5	NA	NA	20.57	8.58	11.99	NA	NA
S-13	1/28/1991	<50	<0.5	0.9	1.2	1.0	NA	NA	20.57	8.39	12.18	NA	NA
S-13	4/25/1991	440a	3.8	<0.5	<0.5	0.6	NA	NA	20.57	7.00	13.57	NA	NA
S-13	7/9/1991	320a	0.6	<0.5	<0.5	<0.5	NA	NA	20.57	8.12	12.45	NA	NA
S-13	10/8/1991	310	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	8.69	11.88	NA	NA
S-13	2/5/1992	NA	NA	NA	NA	NA	NA	NA	20.57	7.62	12.95	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-13	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.15	13.42	NA	NA
S-13	7/27/1992	NA	NA	NA	NA	NA	NA	NA	20.57	8.20	12.37	NA	NA
S-13	10/26/1992	180	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	8.73	11.84	NA	NA
S-13	1/13/1993	NA	NA	NA	NA	NA	NA	NA	20.57	5.06	15.51	NA	NA
S-13	4/16/1993	240	4.8	<0.5	1.3	<0.5	NA	NA	20.57	6.38	14.19	NA	NA
S-13	7/23/1993	NA	NA	NA	NA	NA	NA	NA	20.57	7.45	13.12	NA	NA
S-13	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
S-13	1/27/1994	NA	NA	NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
S-13	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.16	6.91	13.25	NA	NA
S-13	7/26/1994	NA	NA	NA	NA	NA	NA	NA	20.16	7.52	12.64	NA	NA
S-13	10/28/1994	368	<0.3	<0.3	<0.3	<0.6	NA	NA	20.16	7.68	12.48	NA	NA
S-13	1/2/1995	NA	NA	NA	NA	NA	NA	NA	20.16	6.37	13.79	NA	NA
S-13	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.16	5.81	14.35	NA	NA
S-13	7/28/1995	NA	NA	NA	NA	NA	NA	NA	20.16	6.73	13.43	NA	NA
S-13	10/17/1995	<50	1.0	<0.5	<0.5	<0.5	NA	NA	20.16	6.94	13.22	NA	NA
S-13	1/11/1996	NA	NA	NA	NA	NA	NA	NA	20.16	6.20	13.96	NA	NA
S-13	4/2/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.16	5.28	14.88	NA	NA
S-13	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.16	6.35	13.81	NA	NA
S-13	10/10/1996	<50	<0.50	<0.50	<0.50	<0.50	210	160	20.16	7.04	13.12	NA	NA
S-13	1/9/1997	NA	NA	NA	NA	NA	NA	NA	20.16	5.19	14.97	NA	NA
S-13	4/8/1997	<50	<0.50	<0.50	<0.50	<0.50	81	NA	20.16	6.62	13.54	NA	NA
S-13	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.16	6.76	13.40	NA	NA
S-13	10/8/1997	<50	<0.50	<0.50	<0.50	<0.50	110	NA	20.16	7.05	13.11	NA	NA
S-13	1/15/1998	NA	NA	NA	NA	NA	NA	NA	20.16	5.27	14.89	NA	NA
S-13	4/14/1998	<50	<0.50	<0.50	<0.50	<0.50	3.2	NA	20.16	5.24	14.92	NA	NA
S-13	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.16	5.48	14.68	NA	NA
S-13	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.16	7.08	13.08	NA	NA
S-13	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	92.2	NA	20.16	6.65	13.51	NA	NA
S-13	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.16	5.61	14.55	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-13	7/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.16	6.78	13.38	NA	NA
S-13	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.16	7.33	12.83	NA	NA
S-13	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.16	7.51	12.65	NA	NA
S-13	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.16	6.08	14.08	NA	NA
S-13	7/12/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.16	6.50	13.66	NA	NA
S-13	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.16	6.10	14.06	NA	NA
S-13	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	21.2	23.9	20.16	7.09	13.07	NA	NA
S-13	4/24/2001	Well inaccessible		NA	NA	NA	NA	NA	20.16	NA	NA	NA	NA
S-13	7/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.16	7.13	13.03	NA	NA
S-13	11/2/2001	NA	NA	NA	NA	NA	NA	NA	20.16	7.38	12.78	NA	NA
S-13	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	5.9	20.16	6.02	14.14	NA	NA
S-13	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.16	6.26	13.90	NA	NA
S-13	7/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.16	7.00	13.16	NA	NA
S-13	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.19	7.70	12.49	NA	NA
S-13	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	110	20.19	6.41	13.78	NA	NA
S-13	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.19	6.12	14.07	NA	NA
S-13	7/1/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.19	7.65	12.54	NA	1.4
S-13	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.19	7.32	12.87	NA	NA
S-13	1/22/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	NA	20.19	6.60	13.59	NA	NA
S-13	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.19	6.60	13.59	NA	e
S-13	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.19	6.56	13.63	NA	NA
S-13	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.19	6.15	14.04	NA	NA
S-13	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.19	6.42	13.77	NA	NA
S-13	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.19	7.51	12.68	NA	NA
S-13	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.19	6.85	13.34	NA	NA
S-13	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.19	7.39	12.80	NA	NA
S-13	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.19	6.00	14.19	NA	NA
S-13	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.19	7.46	12.73	NA	NA
S-13	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.19	6.71	13.48	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-13	7/21/2009	NA	NA	NA	NA	NA	NA	NA	20.19	7.26	12.93	NA	NA
S-13	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.19	6.25	13.94	NA	NA
S-13	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	20.19	7.01	13.18	NA	NA
S-14	5/3/1989	5300	750	400	200	800	NA	NA	20.44	NA	NA	NA	NA
S-14	8/10/1989	1800	540	140	42	50	NA	NA	20.44	7.58	12.86	NA	NA
S-14	10/9/1989	1000	360	60	20	30	NA	NA	20.44	7.62	12.82	NA	NA
S-14	1/25/1990	640	160	77	17	39	NA	NA	20.44	7.82	12.62	NA	NA
S-14	4/18/1990	1200	200	110	30	96	NA	NA	20.44	7.37	13.07	NA	NA
S-14	7/23/1990	5000	430	340	140	660	NA	NA	20.44	7.28	13.16	NA	NA
S-14	10/18/1990	1800	770	13	17	120	NA	NA	20.44	8.10	12.34	NA	NA
S-14	1/28/1991	720	200	36	21	78	NA	NA	20.44	8.04	12.40	NA	NA
S-14	4/25/1991	14000	930	430	250	970	NA	NA	20.44	6.40	14.04	NA	NA
S-14	7/9/1991	160	30	5.3	5	16	NA	NA	20.44	7.69	12.75	NA	NA
S-14	10/8/1991	5400	81	57	95	380	NA	NA	20.44	8.24	12.20	NA	NA
S-14	2/2/1992	NA	NA	NA	NA	NA	NA	NA	20.44	7.20	13.24	NA	NA
S-14	4/28/1992	2000	270	140	48	170	NA	NA	20.44	9.75	10.69	NA	NA
S-14	10/26/1992	920	33	12	25	88	NA	NA	20.44	8.32	12.12	NA	NA
S-14	1/13/1993	NA	NA	NA	NA	NA	NA	NA	20.44	5.07	15.37	NA	NA
S-14	4/16/1993	4500	1100	29	91	170	NA	NA	20.44	5.86	14.58	NA	NA
S-14	7/23/1993	NA	NA	NA	NA	NA	NA	NA	20.44	7.06	13.38	NA	NA
S-14	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	20.44	NA	NA	NA	NA
S-14	1/27/1994	NA	NA	NA	NA	NA	NA	NA	20.44	NA	NA	NA	NA
S-14	5/5/1994	810	250	<2.5	9.4	19	NA	NA	19.99	6.48	13.51	NA	NA
S-14	7/26/1994	NA	NA	NA	NA	NA	NA	NA	19.99	7.04	12.95	NA	NA
S-14	10/28/1994	5385	290.6	85.8	49.7	186.2	NA	NA	19.99	7.07	12.92	NA	NA
S-14	1/2/1995	NA	NA	NA	NA	NA	NA	NA	19.99	5.95	14.04	NA	NA
S-14	4/14/1995	1600	40	4.7	11	20	NA	NA	19.99	5.22	14.77	NA	NA
S-14	7/28/1995	NA	NA	NA	NA	NA	NA	NA	19.99	6.21	13.78	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-14	10/17/1995	1200	37	<0.5	7.8	11	NA	NA	19.99	6.30	13.69	NA	NA
S-14	1/11/1996	NA	NA	NA	NA	NA	NA	NA	19.99	5.70	14.29	NA	NA
S-14	7/21/1997	220	71	0.71	1.3	1.3	100	NA	19.99	6.14	13.85	NA	NA
S-14	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	20.01	NA	NA	NA	NA
S-14	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	55	20.01	6.20	13.81	NA	NA
S-15	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	NA	NA	NA	NA
S-15	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	8.48	13.74	NA	NA
S-15	10/9/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	8.46	13.76	NA	NA
S-15	1/25/1990	<50	<0.5	<1	<1	<1	NA	NA	22.22	8.34	13.88	NA	NA
S-15	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	22.22	8.45	13.77	NA	NA
S-15	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.22	14.00	NA	NA
S-15	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.11	13.11	NA	NA
S-15	1/28/1991	<50	<0.5	0.6	<0.5	0.8	NA	NA	22.22	9.13	13.09	NA	NA
S-15	4/25/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	7.83	14.39	NA	NA
S-15	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.93	13.29	NA	NA
S-15	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.26	12.96	NA	NA
S-15	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.60	13.62	NA	NA
S-15	4/28/1992	50	0.8	0.9	<0.5	1.4	NA	NA	22.22	8.09	14.13	NA	NA
S-15	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.83	13.39	NA	NA
S-15	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.31	12.91	NA	NA
S-15	1/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	6.64	15.58	NA	NA
S-15	4/16/1993	<50	0.6	1.0	<0.5	0.7	NA	NA	22.22	7.14	15.08	NA	NA
S-15	7/23/1993	<50	1.2	<0.5	<0.5	1.6	NA	NA	22.22	8.23	13.99	NA	NA
S-15	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	22.22	NA	NA	NA	NA
S-15	1/27/1994	Well inaccessible		NA	NA	NA	NA	NA	22.22	NA	NA	NA	NA
S-15	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.57	13.85	NA	NA
S-15	7/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.42	8.16	13.26	NA	NA
S-15	10/28/1994	<50	0.3	<0.3	<0.3	<0.6	NA	NA	21.42	7.87	13.55	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-15	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.02	14.40	NA	NA
S-15	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.42	6.19	15.23	NA	NA
S-15	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	6.72	14.70	NA	NA
S-15	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.04	14.38	NA	NA
S-15	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	21.42	6.40	15.02	NA	NA
S-15	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	21.47	NA	NA	NA	NA
S-15	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	21.47	7.07	14.40	NA	NA

S-16	5/4/1994	380	44	3.0	2.0	<3	NA	NA	21.82	NA	NA	NA	NA
S-16	8/10/1989	<50	0.6	<1	<1	<3	NA	NA	21.82	8.36	13.46	NA	NA
S-16	10/10/1989	<5	<0.5	<1	<1	<3	NA	NA	21.82	8.23	13.59	NA	NA
S-16	1/25/1990	240	160	3.3	0.8	11	NA	NA	21.82	7.88	13.94	NA	NA
S-16	4/18/1990	<50	1.0	<0.5	<0.5	<1	NA	NA	21.82	8.19	13.63	NA	NA
S-16	7/23/1990	<50	1.1	<0.5	<0.5	<0.5	NA	NA	21.82	8.09	13.73	NA	NA
S-16	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.82	8.90	12.92	NA	NA
S-16	1/28/1991	<50	<0.5	0.6	<0.5	0.9	NA	NA	21.82	8.55	13.27	NA	NA
S-16	4/25/1991	60	21	0.5	3.2	4.8	NA	NA	21.82	7.48	14.34	NA	NA
S-16	7/9/1991	<50	1.0	<0.5	<0.5	<0.5	NA	NA	21.82	8.48	13.34	NA	NA
S-16	10/8/1991	50	17	1.4	1.2	5.5	NA	NA	21.82	8.95	12.87	NA	NA
S-16	2/5/1992	150	65	0.7	<0.5	8.4	NA	NA	21.82	8.20	13.62	NA	NA
S-16	4/28/1992	<50	13	<0.5	<0.5	<0.5	NA	NA	21.82	7.80	14.02	NA	NA
S-16	7/27/1992	510	130	<2.5	<0.5	21	NA	NA	21.82	8.29	13.53	NA	NA
S-16	10/26/1992	<50	<0.5	<0.5	<2.5	<0.5	NA	NA	21.82	9.02	12.80	NA	NA
S-16	1/13/1993	100	25	1.9	<0.5	8.4	NA	NA	21.82	5.78	16.04	NA	NA
S-16	4/16/1993	150	56	1.8	4.6	12	NA	NA	21.82	6.80	15.02	NA	NA
S-16	7/23/1993	<50	0.9	<0.5	<0.5	<0.5	NA	NA	21.82	7.67	14.15	NA	NA
S-16	10/27/1993	<50	1.5	<0.5	<0.5	<0.5	NA	NA	21.82	8.52	13.30	NA	NA
S-16	1/27/1994	140	85	<1	<1	13	NA	NA	21.82	7.20	14.62	NA	NA
S-16	5/5/1994	71	25	<0.5	<0.5	4.2	NA	NA	21.24	7.76	13.48	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-16	7/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.24	7.84	13.40	NA	NA
S-16	10/28/1994	<50	11.5	<0.3	<0.3	1.8	NA	NA	21.24	7.97	13.27	NA	NA
S-16	1/2/1995	70	64	<0.5	<0.5	4.0	NA	NA	21.24	6.49	14.75	NA	NA
S-16	4/14/1995	NA	NA	NA	NA	NA	NA	NA	21.24	6.08	15.16	NA	NA
S-16	7/28/1995	<50	1.7	<0.5	<0.5	<0.5	NA	NA	21.24	7.00	14.24	NA	NA
S-16	10/17/1995	<50	4.6	<0.5	<0.5	<0.5	NA	NA	21.24	7.15	14.09	NA	NA
S-16	1/11/1996	80	17	0.7	<0.5	2.9	<2	NA	21.24	6.30	14.94	NA	NA
S-16	4/2/1996	NA	NA	NA	NA	NA	NA	NA	21.24	5.84	15.40	NA	NA
S-16	7/9/1996	NA	NA	NA	NA	NA	NA	NA	21.24	6.72	14.52	NA	NA
S-16	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.24	7.41	13.83	NA	NA
S-16	1/9/1997	80	18	<0.50	1.7	4.8	<2.5	NA	21.24	5.60	15.64	NA	NA
S-16	4/8/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.34	13.90	NA	NA
S-16	7/21/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.20	14.04	NA	NA
S-16	10/8/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.34	13.90	NA	NA
S-16	1/15/1998	650	160	2.7	8.7	62	<12	NA	21.24	4.79	16.45	NA	NA
S-16	4/14/1998	NA	NA	NA	NA	NA	NA	NA	21.24	5.27	15.97	NA	NA
S-16	7/14/1998	NA	NA	NA	NA	NA	NA	NA	21.24	6.32	14.92	NA	NA
S-16	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.24	6.94	14.30	NA	NA
S-16	1/22/1999	Well inaccessible		NA	NA	NA	NA	NA	21.24	NA	NA	NA	NA
S-16	4/8/1999	NA	NA	NA	NA	NA	NA	NA	21.24	5.80	15.44	NA	NA
S-16	7/23/1999	NA	NA	NA	NA	NA	NA	NA	21.24	6.62	14.62	NA	NA
S-16	10/26/1999	NA	NA	NA	NA	NA	NA	NA	21.24	7.42	13.82	NA	NA
S-16	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	21.24	7.34	13.90	NA	NA
S-16	4/14/2000	NA	NA	NA	NA	NA	NA	NA	21.24	6.27	14.97	NA	NA
S-16	7/12/2000	NA	NA	NA	NA	NA	NA	NA	21.24	7.02	14.22	NA	NA
S-16	11/1/2000	NA	NA	NA	NA	NA	NA	NA	21.24	6.79	14.45	NA	NA
S-16	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	3.05	NA	21.24	7.18	14.06	NA	NA
S-16	4/24/2001	NA	NA	NA	NA	NA	NA	NA	21.24	6.85	14.39	NA	NA
S-16	7/2/2001	NA	NA	NA	NA	NA	NA	NA	21.24	7.51	13.73	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-16	11/2/2001	NA	NA	NA	NA	NA	NA	NA	21.24	7.68	13.56	NA	NA
S-16	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.24	6.40	14.84	NA	NA
S-16	4/1/2002	NA	NA	NA	NA	NA	NA	NA	21.24	6.33	14.91	NA	NA
S-16	7/11/2002	NA	NA	NA	NA	NA	NA	NA	21.24	7.39	13.85	NA	NA
S-16	10/28/2002	NA	NA	NA	NA	NA	NA	NA	21.30	8.00	13.30	NA	NA
S-16	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	21.30	6.36	14.94	NA	NA
S-16	4/30/2003	NA	NA	NA	NA	NA	NA	NA	21.30	6.03	15.27	NA	NA
S-16	7/1/2003	NA	NA	NA	NA	NA	NA	NA	21.30	7.28	14.02	NA	NA
S-16	10/8/2003	NA	NA	NA	NA	NA	NA	NA	21.30	7.77	13.53	NA	NA
S-16	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.30	6.80	14.50	NA	NA
S-16	7/13/2004	NA	NA	NA	NA	NA	NA	NA	21.30	7.94	13.36	NA	NA
S-16	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.30	5.62	15.68	NA	NA
S-16	7/19/2005	NA	NA	NA	NA	NA	NA	NA	21.30	6.53	14.77	NA	NA
S-16	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	21.30	6.05	15.25	NA	NA
S-16	7/25/2006	NA	NA	NA	NA	NA	NA	NA	21.30	7.19	14.11	NA	NA
S-16	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	21.30	6.89	14.41	NA	NA
S-16	7/24/2007	NA	NA	NA	NA	NA	NA	NA	21.30	7.60	13.70	NA	NA
S-16	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	21.30	5.82	15.48	NA	NA
S-16	8/4/2008	NA	NA	NA	NA	NA	NA	NA	21.30	7.55	13.75	NA	NA
S-16	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.30	7.16	14.14	NA	NA
S-16	7/21/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.30	7.69	13.61	NA	NA
S-16	07/21/2009*	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.30	7.69	13.61	NA	NA
S-16	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	21.30	6.99	14.31	NA	NA
S-16	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	21.30	7.42	13.88	NA	NA

S-17	5/3/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	NA	NA	NA	NA
S-17	8/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	8.13	12.82	NA	NA
S-17	10/9/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	8.18	12.77	NA	NA
S-17	1/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.95	7.60	13.35	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-17	4/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.95	7.95	13.00	NA	NA
S-17	7/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.87	13.08	NA	NA
S-17	10/18/1990	390	10	62	22	110	NA	NA	20.95	8.71	12.24	NA	NA
S-17	1/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.54	12.41	NA	NA
S-17	4/25/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.15	13.80	NA	NA
S-17	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.24	12.71	NA	NA
S-17	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.86	12.09	NA	NA
S-17	2/5/1992	NA	NA	NA	NA	NA	NA	NA	20.95	7.74	13.21	NA	NA
S-17	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.41	13.54	NA	NA
S-17	7/27/1992	NA	NA	NA	NA	NA	NA	NA	20.95	8.34	12.61	NA	NA
S-17	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.87	12.08	NA	NA
S-17	1/13/1993	NA	NA	NA	NA	NA	NA	NA	20.95	3.43	17.52	NA	NA
S-17	4/16/1993	130	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	6.70	14.25	NA	NA
S-17	7/23/1993	NA	NA	NA	NA	NA	NA	NA	20.95	7.53	13.42	NA	NA
S-17	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.29	12.66	NA	NA
S-17	1/27/1994	NA	NA	NA	NA	NA	NA	NA	20.95	5.78	15.17	NA	NA
S-17	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.45	6.99	13.46	NA	NA
S-17	7/26/1994	NA	NA	NA	NA	NA	NA	NA	20.45	7.62	12.83	NA	NA
S-17	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.45	7.91	12.54	NA	NA
S-17	1/2/1995	NA	NA	NA	NA	NA	NA	NA	20.45	6.33	14.12	NA	NA
S-17	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.45	5.53	14.92	NA	NA
S-17	7/28/1995	NA	NA	NA	NA	NA	NA	NA	20.45	6.75	13.70	NA	NA
S-17	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.45	7.15	13.30	NA	NA
S-17	1/11/1996	NA	NA	NA	NA	NA	NA	NA	20.45	6.37	14.08	NA	NA
S-17	4/2/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.45	5.31	15.14	NA	NA
S-17	7/9/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.30	14.15	NA	NA
S-17	10/10/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	7.80	12.65	NA	NA
S-17	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	4.80	15.65	NA	NA
S-17	4/8/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.83	13.62	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-17 (D)	4/8/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	NA	NA	NA	NA
S-17	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.78	13.67	NA	NA
S-17	10/8/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.80	13.65	NA	NA
S-17	1/15/1998	380	<0.50	<0.50	<0.50	0.94	<2.5	NA	20.45	2.91	17.54	NA	NA
S-17	4/14/1998	160	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	4.47	15.98	NA	NA
S-17	7/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.45	14.00	NA	NA
S-17	10/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	7.11	13.34	NA	NA
S-17	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.45	6.01	14.44	NA	NA
S-17	4/8/1999	145	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.45	4.69	15.76	NA	NA
S-17	7/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.45	6.60	13.85	NA	NA
S-17	10/26/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	6.68	13.77	NA	NA
S-17	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	7.20	13.25	NA	NA
S-17	4/14/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	5.88	14.57	NA	NA
S-17	7/12/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	6.45	14.00	NA	NA
S-17	11/1/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	5.45	15.00	NA	NA
S-17	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.45	7.22	13.23	NA	NA
S-17	4/24/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.45	6.10	14.35	NA	NA
S-17	7/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	6.95	13.50	NA	NA
S-17	11/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	7.50	12.95	NA	NA
S-17	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	5.76	14.69	NA	NA
S-17	4/1/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	6.02	14.43	NA	NA
S-17	7/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.45	6.97	13.48	NA	NA
S-17	10/28/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.44	7.60	12.84	NA	0.9
S-17	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.44	5.77	14.67	NA	NA
S-17	4/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	20.44	5.35	15.09	NA	NA
S-17	7/1/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.44	6.95	13.49	NA	1.1
S-17	10/8/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.44	7.01	13.43	NA	NA
S-17	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.44	6.57	13.87	NA	NA
S-17	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.36 f	7.71	12.65	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-17	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.36 f	5.09	15.27	NA	NA
S-17	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.36	6.30	14.06	NA	NA
S-17	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.36	5.50	14.86	NA	NA
S-17	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.36	6.84	13.52	NA	NA
S-17	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.36	6.15	14.21	NA	NA
S-17	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.36	6.92	13.44	NA	NA
S-17	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	5.05	15.31	NA	NA
S-17	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.36	6.96	13.40	NA	NA
S-17	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.56	13.80	NA	NA
S-17	7/21/2009	NA	NA	NA	NA	NA	NA	NA	20.36	7.23	13.13	NA	NA
S-17	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.36	6.38	13.98	NA	NA
S-17	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	20.36	7.12	13.24	NA	NA

S-18	5/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	NA	NA	NA	NA
S-18	7/9/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.23	12.80	NA	NA
S-18	10/8/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.84	12.19	NA	NA
S-18	2/5/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.67	13.36	NA	NA
S-18	4/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.40	13.63	NA	NA
S-18	7/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.38	12.65	NA	NA
S-18	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.83	12.20	NA	NA
S-18	1/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	5.86	15.17	NA	NA
S-18	4/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	4.88	16.15	NA	NA
S-18	7/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.56	13.47	NA	NA
S-18	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.30	12.73	NA	NA
S-18	1/27/1994	<50	1.9	<0.5	<0.5	<0.5	NA	NA	21.03	6.84	14.19	NA	NA
S-18	5/5/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.05	13.52	NA	NA
S-18	7/26/1994	<500	<3	1.1	<0.3	1.8	NA	NA	20.57	7.62	12.95	NA	NA
S-18	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.57	8.01	12.56	NA	NA
S-18	1/2/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	6.26	14.31	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-18	4/14/1995	NA	NA	NA	NA	NA	NA	NA	20.57	4.85	15.72	NA	NA
S-18	7/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	5.80	14.77	NA	NA
S-18	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.22	13.35	NA	NA
S-18	1/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.57	6.40	14.17	NA	NA
S-18	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.57	4.80	15.77	NA	NA
S-18	7/9/1996	NA	NA	NA	NA	NA	NA	NA	20.57	5.74	14.83	NA	NA
S-18	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.57	6.06	14.51	NA	NA
S-18	1/9/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.57	4.70	15.87	NA	NA
S-18	4/8/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.62	13.95	NA	NA
S-18	7/21/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.94	13.63	NA	NA
S-18	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.88	13.69	NA	NA
S-18	1/15/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.57	3.60	16.97	NA	NA
S-18	4/14/1998	NA	NA	NA	NA	NA	NA	NA	20.57	4.28	16.29	NA	NA
S-18	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.57	6.13	14.44	NA	NA
S-18	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.57	7.20	13.37	NA	NA
S-18	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.57	6.00	14.57	NA	NA
S-18	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.57	4.95	15.62	NA	NA
S-18	7/23/1999	NA	NA	NA	NA	NA	NA	NA	20.57	6.03	14.54	NA	NA
S-18	10/26/1999	NA	NA	NA	NA	NA	NA	NA	20.57	7.39	13.18	NA	NA
S-18	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.57	7.54	13.03	NA	NA
S-18	4/14/2000	NA	NA	NA	NA	NA	NA	NA	20.57	4.41	16.16	NA	NA
S-18	7/12/2000	NA	NA	NA	NA	NA	NA	NA	20.57	5.31	15.26	NA	NA
S-18	11/1/2000	NA	NA	NA	NA	NA	NA	NA	20.57	6.42	14.15	NA	NA
S-18	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	3.67	NA	20.57	7.30	13.27	NA	NA
S-18	4/24/2001	NA	NA	NA	NA	NA	NA	NA	20.57	6.83	13.74	NA	NA
S-18	7/2/2001	NA	NA	NA	NA	NA	NA	NA	20.57	7.23	13.34	NA	NA
S-18	11/2/2001	Unable to locate		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
S-18	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.57	6.15	14.42	NA	NA
S-18	4/1/2002	NA	NA	NA	NA	NA	NA	NA	20.57	6.06	14.51	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

S-18	7/11/2002	NA	NA	NA	NA	NA	NA	NA	20.57	6.98	13.59	NA	NA
S-18	10/28/2002	NA	NA	NA	NA	NA	NA	NA	20.63	7.66	12.97	NA	NA
S-18	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.63	6.18	14.45	NA	NA
S-18	4/30/2003	NA	NA	NA	NA	NA	NA	NA	20.63	5.32	15.31	NA	NA
S-18	7/1/2003	NA	NA	NA	NA	NA	NA	NA	20.63	7.20	13.43	NA	NA
S-18	10/8/2003	NA	NA	NA	NA	NA	NA	NA	20.63	7.48	13.15	NA	NA
S-18	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.63	6.74	13.89	NA	NA
S-18	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.63	7.87	12.76	NA	NA
S-18	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.63	5.33	15.30	NA	NA
S-18	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.63	6.55	14.08	NA	NA
S-18	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.63	5.89	14.74	NA	NA
S-18	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.63	7.10	13.53	NA	NA
S-18	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.63	6.60	14.03	NA	NA
S-18	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.63	7.13	13.50	NA	NA
S-18	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.63	5.25	15.38	NA	NA
S-18	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.63	7.85	12.78	NA	NA
S-18	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.63	6.98	13.65	NA	NA
S-18	7/21/2009	NA	NA	NA	NA	NA	NA	NA	20.63	7.43	13.20	NA	NA
S-18	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.63	6.67	13.96	NA	NA
S-18	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	20.63	7.31	13.32	NA	NA

S-19	10/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.11	6.41	13.70	NA	NA
S-19	1/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	90.6	NA	20.11	5.42	14.69	NA	NA
S-19	4/8/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.11	4.61	15.50	NA	NA
S-19	7/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.11	5.86	14.25	NA	NA
S-19	10/26/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	6.28	13.83	NA	NA
S-19	1/3/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	6.62	13.49	NA	NA
S-19	4/14/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	4.31	15.80	NA	NA
S-19	7/12/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	5.46	14.65	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
S-19	11/1/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	20.11	5.05	15.06	NA	NA
S-19	1/3/2001	<50.0	<0.500	<0.500	<0.500	<0.500	9.61	NA	20.11	6.00	14.11	NA	NA
S-19	4/24/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.11	5.58	14.53	NA	NA
S-19	7/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	6.34	13.77	NA	3.4
S-19	11/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	6.57	13.54	NA	3.4
S-19	1/16/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	5.05	15.06	NA	0.5
S-19	4/1/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	5.13	14.98	NA	3.3
S-19	7/11/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.11	5.50	14.61	NA	0.5
S-19	10/28/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	20.10	6.35	13.75	NA	0.6
S-19	1/23/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	20.10	5.15	14.95	NA	0.3
S-19	4/30/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	20.10	4.90	15.20	NA	0.5
S-19	7/1/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.10	5.50	14.60	NA	1.7
S-19	10/8/2003	58	<0.50	<0.50	<0.50	<1.0	NA	<0.50	20.10	6.63	13.47	NA	0.4
S-19	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.10	5.67	14.43	NA	0.6
S-19	7/13/2004	NA	NA	NA	NA	NA	NA	NA	20.10	6.82	13.28	NA	1.0
S-19	1/20/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.10	4.75	15.35	NA	0.6
S-19	7/19/2005	NA	NA	NA	NA	NA	NA	NA	20.10	5.15	14.95	NA	NA
S-19	1/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	NA	20.10	4.85	15.25	NA	NA
S-19	7/25/2006	NA	NA	NA	NA	NA	NA	NA	20.10	6.14	13.96	NA	NA
S-19	1/4/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	20.10	5.75	14.35	NA	NA
S-19	7/24/2007	NA	NA	NA	NA	NA	NA	NA	20.10	6.39	13.71	NA	NA
S-19	1/15/2008	<50 g	<0.50	<1.0	<1.0	<1.0	NA	NA	20.10	4.72	15.38	NA	NA
S-19	8/4/2008	NA	NA	NA	NA	NA	NA	NA	20.10	6.43	13.67	NA	NA
S-19	1/8/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.10	6.18	13.92	NA	NA
S-19	7/21/2009	NA	NA	NA	NA	NA	NA	NA	20.10	6.67	13.43	NA	NA
S-19	01/12/2010 *	<50	<0.50	<1.0	<1.0	<1.0	NA	NA	20.10	6.14	13.96	NA	NA
S-19	07/22/2010 *	NA	NA	NA	NA	NA	NA	NA	20.10	5.73	14.37	NA	NA

SR-1	3/22/1989	5400	1100	230	350	1300	NA	NA	21.45	NA	NA	NA	NA
------	-----------	------	------	-----	-----	------	----	----	-------	----	----	----	----

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
SR-1	1/25/1990	2200	470	120	110	510	NA	NA	21.45	7.53	13.92	NA	NA
SR-1	4/18/1990	1000	130	47	47	220	NA	NA	21.45	8.17	13.28	NA	NA
SR-1	7/23/1990	3200	470	320	170	870	NA	NA	21.45	7.58	13.87	NA	NA
SR-1	10/18/1990	1300	280	6.6	110	130	NA	NA	21.45	8.81	12.64	NA	NA
SR-1	1/28/1991	110	120	12	51	110	NA	NA	21.45	8.37	13.08	NA	NA
SR-1	4/25/1991	NA	NA	NA	NA	NA	NA	NA	21.45	6.91	14.54	NA	NA
SR-1	7/9/1991	1400	200	27	130	340	NA	NA	21.45	8.11	13.34	NA	NA
SR-1	10/8/1991	980	79	1.5	44	52	NA	NA	21.45	8.63	12.82	NA	NA
SR-1	2/5/1991	3800	580	36	320	400	NA	NA	21.45	7.68	13.77	NA	NA
SR-1	4/28/1992	38000	1800	460	1900	750	NA	NA	21.45	7.27	14.18	NA	NA
SR-1	7/27/1992	NA	NA	NA	NA	NA	NA	NA	21.45	8.11	13.34	0.01	NA
SR-1	10/26/1992	1800	370	10	130	130	NA	NA	21.45	8.63	12.82	NA	NA
SR-1	1/13/1993	47000	1000	1100	1700	13000	NA	NA	21.45	5.46	15.99	NA	NA
SR-1	4/16/1993	25000	1700	430	2400	8300	NA	NA	21.45	6.28	15.17	NA	NA
SR-1	7/23/1993	33000	2400	2000	3800	14000	NA	NA	21.45	7.34	14.11	NA	NA
SR-1	10/27/1993	2300	340	<12.5	270	440	NA	NA	21.45	8.04	13.41	NA	NA
SR-1	1/27/1994	36000	2000	1700	3000	11000	NA	NA	21.45	6.68	14.77	NA	NA
SR-1	5/5/1994	43000	1500	130	2900	12000	NA	NA	20.57	6.81	13.76	NA	NA
SR-1	7/26/1994	13600	682.7	39.2	996.6	2516	NA	NA	20.57	7.38	13.19	NA	NA
SR-1	10/28/1994	8462	301.5	29.3	384.7	2019	NA	NA	20.57	7.48	13.09	NA	NA
SR-1	1/2/1995	13000	400	120	2500	10000	NA	NA	20.57	6.34	14.23	NA	NA
SR-1	4/14/1995	43000	690	370	2500	12000	NA	NA	20.57	5.29	15.28	NA	NA
SR-1	7/28/1995	35000	760	120	2300	8100	NA	NA	20.57	6.36	14.21	NA	NA
SR-1	10/17/1995	9700	310	12	610	1200	NA	NA	20.57	6.62	13.95	NA	NA
SR-1 (D)	10/17/1995	8300	230	9.6	680	840	NA	NA	20.57	NA	NA	NA	NA
SR-1	1/11/1996	18000	410	170	1200	4400	42	NA	20.57	5.66	14.91	NA	NA
SR-1 (D)	1/11/1996	17000	420	180	1100	4000	42	NA	20.57	NA	NA	NA	NA
SR-1	4/2/1996	NA	NA	NA	NA	NA	NA	NA	20.57	5.14	15.43	NA	NA
SR-1	7/9/1996	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
SR-1	10/10/1996	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	1/9/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	4/8/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	7/21/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	10/8/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.94	13.63	NA	NA
SR-1	1/15/1998	8100	82	<25	36	2300	<125	NA	20.57	4.30	16.27	NA	NA
SR-1	4/14/1998	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA	NA
SR-1	7/14/1998	NA	NA	NA	NA	NA	NA	NA	20.28	6.48	13.80	NA	NA
SR-1	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.28	6.61	13.67	NA	NA
SR-1	1/22/1999	Well inaccessible		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/8/1999	NA	NA	NA	NA	NA	NA	NA	20.28	0.97	19.31	NA	NA
SR-1	7/23/1999	Well dry		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	10/26/1999	Well dry		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/14/2000	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	7/12/2000	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	11/1/2000	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	1/3/2001	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/24/2001	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	7/2/2001	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	11/2/2001	Well dry	NA	NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	1/16/2002	Well dry	NA	NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	4/1/2002	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	7/11/2002	Obstruction in well		NA	NA	NA	NA	NA	20.28	NA	NA	NA	NA
SR-1	10/28/2002	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	1/23/2003	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	4/30/2003	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	7/1/2003	Obstruction in well		NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA
SR-1	10/8/2003	Well dry	NA	NA	NA	NA	NA	NA	20.27	NA	NA	NA	NA

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
SV-1	04/15/1998 b	NA	NA	NA	NA	NA	NA	NA	NA	6.02	NA	NA	NA
SV-1	04/15/1998 c	NA	NA	NA	NA	NA	NA	NA	NA	7.15	NA	NA	NA
SV-1	03/18/2002 d	NA	NA	NA	NA	NA	NA	NA	21.31	NA	NA	NA	NA
SV-1	1/22/2004	3000	15	<2.5	34	11	NA	<2.5	21.31	6.67	14.64	NA	NA

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to April 24, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

MSL = Mean sea level

ppm = Parts per million

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon.

b = Pre-development sample

c = Post-development sample

d = Survey date only.

e = DO reading not taken.

f = TOC lowered 0.08 feet due to wellhead maintenance on June 3, 2004.

g = Analyzed by EPA Method 8015B (M).

TABLE 2
HISTORIC WELL CONCENTRATIONS
Former Shell-Branded Service Station
15275 Washington Boulevard
San Leandro, California

Well ID	Date	TPH-g (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (feet)	GW Elevation (MSL)	SPH Thickness (feet)	DO Reading (ppm)
---------	------	-----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	-----------------------------	--------------------------	----------------------------	------------------------

Notes (cont.):

h = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

i = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Site surveyed March 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

* = Purge sample

APPENDIX A
WELL SURVEY DATA

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	9 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	33 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3235824	1/4 - 1/2 Mile NW
A2	USGS3235821	1/4 - 1/2 Mile East
A3	USGS3235820	1/4 - 1/2 Mile East
8	USGS3235993	1/2 - 1 Mile SSE
14	USGS3235992	1/2 - 1 Mile SW
16	USGS3235823	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
---------------	----------------	-------------------------

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
15	CA1700563	1/2 - 1 Mile ESE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
17	CADW20000038043	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 2731037.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: 747 Lewelling Ave
 ADDRESS: 747 Lewelling Ave
 San Leandro CA 94579
 LAT/LONG: 37.6862 / 122.1401

CLIENT: Delta Consultants
 CONTACT: Abhik Dutta
 INQUIRY #: 2731037.2s
 DATE: March 29, 2010 12:41 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
NW
1/4 - 1/2 Mile
Lower

FED USGS USGS3235824

Agency cd:	USGS	Site no:	374123122083901
Site name:	003S003W12C001M	EDR Site id:	USGS3235824
Latitude:	374123	Dec lat:	37.68965308
Longitude:	1220839	Coor meth:	M
Dec lon:	-122.14524289	Latlong datum:	NAD27
Coor accr:	F	District:	06
Dec latlong datum:	NAD83	County:	001
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	SAN LEANDRO		
Altitude:	18		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay. California. Area = 1200 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1958
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	106	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported	Daily flow data begin date:	Not Reported
Peak flow data begin date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data count:	Not Reported	Peak flow data end date:	Not Reported
Water quality data end date:	Not Reported	Water quality data begin date:	Not Reported
Ground water data begin date:	Not Reported	Water quality data count:	Not Reported
Ground water data count:	Not Reported	Ground water data end date:	Not Reported

Ground-water levels, Number of Measurements: 0

A2
East
1/4 - 1/2 Mile
Higher

FED USGS USGS3235821

Agency cd:	USGS	Site no:	374107122075301
Site name:	003S002W07E001M	EDR Site id:	USGS3235821
Latitude:	374107.20	Dec lat:	37.68533333
Longitude:	1220752.56	Coor meth:	D
Dec lon:	-122.13126667	Latlong datum:	NAD83
Coor accr:	1	District:	06
Dec latlong datum:	NAD83	County:	001
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	SAN LEANDRO		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 34.72
 Altitude method: Differential Global Positioning System (GPS)
 Altitude accuracy: 0.2
 Altitude datum: National Geodetic Vertical Datum of 1929
 Hydrologic: Not Reported
 Topographic: Flat surface
 Site type: Ground-water other than Spring Date construction: 20000101
 Date inventoried: 20000210 Mean greenwich time offset: PST
 Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Not Reported
 Aquifer: Not Reported
 Well depth: 540 Hole depth: 880
 Source of depth data: other reported
 Project number: 470653600
 Real time data flag: 0 Daily flow data begin date: 0000-00-00
 Daily flow data end date: 0000-00-00 Daily flow data count: 0
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00
 Peak flow data count: 0 Water quality data begin date: 2000-02-10
 Water quality data end date: 2000-02-10 Water quality data count: 1
 Ground water data begin date: 2002-11-13 Ground water data end date: 2003-08-22
 Ground water data count: 2

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-08-22	46.10		2002-11-13	43.91	

**A3
East
1/4 - 1/2 Mile
Higher**

FED USGS USGS3235820

Agency cd: USGS Site no: 374107122075201
 Site name: 003S002W07E002M
 Latitude: 374107.36 EDR Site id: USGS3235820
 Longitude: 1220752.45 Dec lat: 37.68537778
 Dec lon: -122.13123611 Coor meth: D
 Coor acc: 1 Latlong datum: NAD83
 Dec latlong datum: NAD83 District: 06
 State: 06 County: 001
 Country: US Land net: Not Reported
 Location map: SAN LEANDRO Map scale: 24000
 Altitude: 33.82
 Altitude method: Differential Global Positioning System (GPS)
 Altitude accuracy: 0.2
 Altitude datum: National Geodetic Vertical Datum of 1929
 Hydrologic: Not Reported
 Topographic: Flat surface
 Site type: Ground-water other than Spring Date construction: 19991222
 Date inventoried: 20000210 Mean greenwich time offset: PST
 Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Not Reported
 Aquifer: Not Reported
 Well depth: 540 Hole depth: 560
 Source of depth data: driller
 Project number: 470653600
 Real time data flag: 0 Daily flow data begin date: 0000-00-00
 Daily flow data end date: 0000-00-00 Daily flow data count: 0
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
 Water quality data end date: 0000-00-00
 Ground water data begin date: 2002-11-13
 Ground water data count: 1

Water quality data begin date: 0000-00-00
 Water quality data count: 0
 Ground water data end date: 2002-11-13

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2002-11-13	42.89	

B4 East 1/2 - 1 Mile Higher	Site ID:	01-0126		
	Groundwater Flow:	SW	AQUIFLOW	50309
	Shallow Water Depth:	9.73		
	Deep Water Depth:	15.29		
	Average Water Depth:	Not Reported		
	Date:	06/10/1996		

B5 East 1/2 - 1 Mile Higher	Site ID:	01-0126		
	Groundwater Flow:	SW	AQUIFLOW	50310
	Shallow Water Depth:	13.5		
	Deep Water Depth:	25.0		
	Average Water Depth:	Not Reported		
	Date:	09/16/1986		

C6 ENE 1/2 - 1 Mile Higher	Site ID:	01-0328		
	Groundwater Flow:	W	AQUIFLOW	52960
	Shallow Water Depth:	10.87		
	Deep Water Depth:	14.95		
	Average Water Depth:	Not Reported		
	Date:	09/06/1994		

C7 ENE 1/2 - 1 Mile Higher	Site ID:	01-0328		
	Groundwater Flow:	W	AQUIFLOW	52959
	Shallow Water Depth:	14.5		
	Deep Water Depth:	15.0		
	Average Water Depth:	Not Reported		
	Date:	11/17/1992		

8 SSE 1/2 - 1 Mile Higher			FED USGS	USGS3235993
--	--	--	-----------------	--------------------

Agency cd:	USGS	Site no:	374039122080201
Site name:	003S003W13A005M	EDR Site id:	USGS3235993
Latitude:	374039	Dec lat:	37.67743129
Longitude:	1220802	Coor meth:	M
Dec lon:	-122.13496474	Latlong datum:	NAD27
Coor accr:	F	District:	06
Dec latlong datum:	NAD83	County:	001
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	San Leandro		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	23		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay. California. Area = 1200 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19900719
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	90	Hole depth:	100
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1998-12-09
Water quality data end date:	1998-12-09	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

D9 East 1/2 - 1 Mile Higher	Site ID:	01-1714		
	Groundwater Flow:	SW	AQUIFLOW	68802
	Shallow Water Depth:	13.82		
	Deep Water Depth:	19.28		
	Average Water Depth:	Not Reported		
	Date:	11/17/1993		

D10 East 1/2 - 1 Mile Higher	Site ID:	01-1531		
	Groundwater Flow:	NW	AQUIFLOW	52393
	Shallow Water Depth:	15.62		
	Deep Water Depth:	17.62		
	Average Water Depth:	Not Reported		
	Date:	10/08/1987		

D11 East 1/2 - 1 Mile Higher	Site ID:	01-1531		
	Groundwater Flow:	SW	AQUIFLOW	52391
	Shallow Water Depth:	13.37		
	Deep Water Depth:	22.18		
	Average Water Depth:	Not Reported		
	Date:	11/14/1994		

D12 East 1/2 - 1 Mile Higher	Site ID:	01-1531		
	Groundwater Flow:	SW	AQUIFLOW	52392
	Shallow Water Depth:	13.35		
	Deep Water Depth:	17.50		
	Average Water Depth:	Not Reported		
	Date:	09/01/1999		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

13
ESE
1/2 - 1 Mile
Higher

Site ID: 01-1298
Groundwater Flow: SW
Shallow Water Depth: 9.4
Deep Water Depth: 11
Average Water Depth: Not Reported
Date: 05/09/1996

AQUIFLOW 68791

14
SW
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	374034122090601
Site name:	003S003W13D007M	EDR Site id:	USGS3235992
Latitude:	374034.2	Dec lat:	37.67616667
Longitude:	1220906.6	Coor meth:	D
Dec lon:	-122.15183333	Latlong datum:	NAD83
Coor accr:	1	District:	06
Dec latlong datum:	NAD83	County:	001
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	SAN LEANDRO, CA		
Altitude:	13.3		
Altitude method:	Differential Global Positioning System (GPS)		
Altitude accuracy:	0.2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	200011
Date inventoried:	20020724	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	640	Hole depth:	1025
Source of depth data:	driller		
Project number:	967759600		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

FED USGS USGS3235992

Ground-water levels, Number of Measurements: 0

15
ESE
1/2 - 1 Mile
Higher

FRDS PWS CA1700563

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	1		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	3		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563001		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563002		
Facility name:	WELL 02		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563003		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	1		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	3		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563001		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563002		
Facility name:	WELL 02		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563003		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563003		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	1		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	3		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563001		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563002		
Facility name:	WELL 02		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563003		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	1		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	3		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported		
Contact city:	Lakeport		
Contact zip:	95453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid: CA1700563 Epa region: 09
 State: CA County: Not Reported
 Pws name: Lake County CSA 22 - Mt. Hannah
 Population Served: 88 Pwssvcconn: 35
 PWS Source: Groundwater
 Pws type: CWS
 Status: Active Owner type: Local_Govt
 Facility id: CA1700563001
 Facility name: WELL 01 - INACTIVE
 Facility type: Well Treatment process: hypochlorination, post
 Treatment objective: disinfection
 Contact name: Mark Dellinger
 Original name: Lake County CSA 22 - Mt. Hannah
 Contact phone: 7072630119 Contact address1: 230A Main Street
 Contact address2: Not Reported
 Contact city: Lakeport
 Contact zip: 95453

Pwsid: CA1700563 Epa region: 09
 State: CA County: Not Reported
 Pws name: Lake County CSA 22 - Mt. Hannah
 Population Served: 88 Pwssvcconn: 35
 PWS Source: Groundwater
 Pws type: CWS
 Status: Active Owner type: Local_Govt
 Facility id: CA1700563002
 Facility name: WELL 02
 Facility type: Well Treatment process: hypochlorination, post
 Treatment objective: disinfection
 Contact name: Mark Dellinger
 Original name: Lake County CSA 22 - Mt. Hannah
 Contact phone: 7072630119 Contact address1: 230A Main Street
 Contact address2: Not Reported
 Contact city: Lakeport
 Contact zip: 95453

PWS ID: CA1700563
 Date Initiated: Not Reported Date Deactivated: Not Reported
 PWS Name: LAKE COUNTY CSA 22 - MT. HANNAH
 LAKEPORT, CA 95453

Addressee / Facility: System Owner/Responsible Party
 MT HANNAH MUTUAL
 17153 VIA ALAMITOS
 SAN LORENZO, CA 94580

Facility Latitude: 37 40 51 Facility Longitude: 122 07 23
 City Served: Not Reported
 Treatment Class: Untreated Population: 100

Violations information not reported.

16
East
1/2 - 1 Mile
Higher

FED USGS USGS3235823

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	374113122071901
Site name:	003S002W07G012M	EDR Site id:	USGS3235823
Latitude:	374118.1	Dec lat:	37.68836111
Longitude:	1220721.9	Coor meth:	D
Dec lon:	-122.12275	Latlong datum:	NAD83
Coor accr:	1	District:	06
Dec latlong datum:	NAD83	County:	001
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	HAYWARD		
Altitude:	35.7		
Altitude method:	Differential Global Positioning System (GPS)		
Altitude accuracy:	.2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay. California. Area = 1200 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19910812
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	595	Hole depth:	610
Source of depth data:	driller		
Project number:	470653600		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	1999-11-15	Water quality data count:	1
Water quality data end date:	1999-11-15	Ground water data begin date:	2002-11-13
Ground water data begin date:	2002-11-13	Ground water data end date:	2002-11-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

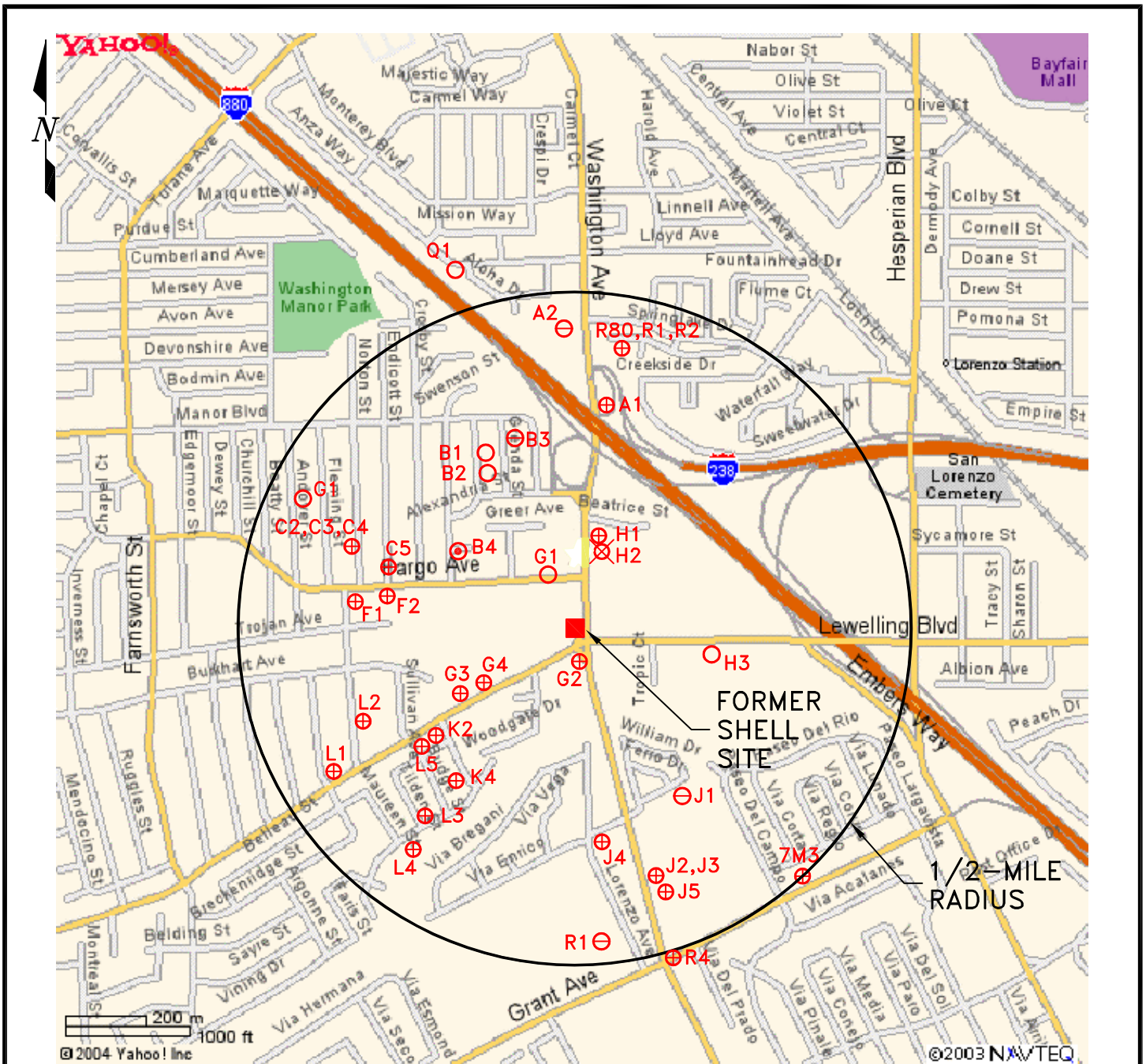
Date	Feet below Surface	Feet to Sealevel

2002-11-13	30.14	

**17
North
1/2 - 1 Mile
Higher**

CA WELLS CADW20000038043

Longitude:	122.1417
Latitude:	37.7003
Stwellno:	03S03W01G001M
Districtco:	7
Welluseco:	I
Countycode:	1
Gwcode:	200901
Site id:	CADW20000038043



- EXPLANATION**
- ⊗ ABANDONED WELL
 - ⊕ AGRICULTURE/IRRIGATION WELL
 - ⊙ CATHODIC PROTECTION
 - DOMESTIC WELL
 - ⊖ UNKNOWN WELL

Ref. EQ-75.1a/WELL SURVEY.DWG
 Basemap from Yahoo Maps, July 2004


PREPARED BY  TOXICHEM Management Systems, Inc. Environmental & Occupational Health Services	Former Shell-Branded Service Station 15275 Washington Avenue San Leandro, California	FIGURE: 1
	SITE VICINITY AND WELL SURVEY MAP	PROJECT: EQ-75

Table 4
Well Location Details
Shell-branded Service Station
15275 Washington Avenue, San Leandro

Map Number	Well Number	Source of Information	Well Location	Approximate Distance and Direction from Site (Feet)	Total Depth ft.	Date Installed	Use
Q1	3S/3W -1Q1	DWR	No distances on log, see approximate location on map	3,000'NNW	84	1977	Domestic
R80	3S/3W -1R80	DWR	350'E of Washington St, 600'N of Nimitz Freeway	2,400'N	603	1961	Irrigation
R1	3S/3W -1Rx	EMCON	Washington Street	2,400'N	335	1936	Irrigation
R2	3S/3W -1Rx	EMCON	Washington Street	2,400'N	325	1936	Irrigation
H1	3S/3W -12H1	DWR/APWA	Washington Street	900'N	525	1957	Irrigation
H2	3S/3W -12H2	DWR/APWA	Washington Street	900'N	720	1947	Irrigation/Abandoned
H3	3S/3W -12xx	EMCON	Lewelling Street	900'E	75	1937	Domestic
J1	3S/3W -12J1	DWR	No distances on log, see approximate location on map	900-2,000'SSE	370	1940	NA
J2	3S/3W -12Jx	APWA	Washington Avenue	2,100'SSE	460	1964	Irrigation
J3	3S/3W -xxxx	APWA	Washington Avenue	2,100'SSE	550	1948	Irrigation
J4	3S/3W -12J4	APWA	Lorenzo Avenue	1,800'S	80	1978	Irrigation
J5	3S/3W -12Jx	EMCON	Washington Avenue	2,100'SSE	350	1932	Irrigation
R1	3S/3W -12Rx	DWR	Grant Street, San Lorenzo	2,600'S	600	1955	NA
R4	3S/3W -12R4	APWA	Grant Avenue at Washington Avenue	2,600'S	38	1989	Irrigation
K2	3S/3W -12K2	APWA	Lewelling Street	1,400'WSW	42	NA	Irrigation
K4	3S/3W -12K4	APWA	Sedgeman Street	1,500'SW	30	1977	Irrigation
L1	3S/3W -12L1	APWA	Andover Street	2,300'SW	30	1977	Irrigation
L2	3S/3W -12L2	APWA	Norton Street	2,000'SW	30	1953	Irrigation
L3	3S/3W -12L3	APWA	Tilden Street	2,000'SW	30	1977	Irrigation
L4	3S/3W -12L4	APWA	Kramer Street	2,000'SW	30	1977	Irrigation
L5	3S/xx-xxxx	APWA	Lewelling Boulevard	1,500'WSW	211	1942	Irrigation
7M3	3S/2W -7M3	EMCON/DWR	Grant Avenue, San Lorenzo	2,600'SSE	31	1977	Domestic/Irrigation
G1	3S/3W -12Gx	EMCON/APWA	Fargo Avenue	500'NW	42	NA	Domestic
G2	3S/3W -12Gx	EMCON/APWA	Washington Avenue	<200'S	130	1920	Irrigation
G3	3S/3W -12xx	APWA	Lewelling Street	1,000'SW	120	1925	Irrigation

Table 4
Well Location Details
 Shell-branded Service Station
 15275 Washington Avenue, San Leandro

Map Number	Well Number	Source of Information	Well Location	Approximate Distance and Direction from Site (Feet)	Total Depth ft.	Date Installed	Use
G4	3S/3W -12xx	EMCON	Lewelling Street	1,000'SW	150	1920	Irrigation
A1	3S/3W -12xx	EMCON	Location taken from Emcon map	1,900'NNE	545	1934	Irrigation?
A2	3S/3W -12xx	EMCON	Washington Avenue	2,400'N	60	1920	NA
B1	3S/3W -12Bx	APWA	Alexandria Avenue	1,500'NW	29	1977	Domestic
B2	3S/3W -12Bx	APWA	Alexandria Avenue	1,500'NW	28	1977	Domestic
B3	3S/3W -12Bx	APWA	Grenda Street	1,500'NW	28	1977	Domestic
B4	3S/3W -12Bx	APWA	Swenson Street at Swenson Court	1,100'WNW	122	1991	Other (Cathodic?)
C1	3S/3W -12Cx	APWA	Andover Street	2,400'WNW	34	1977	Irrigation
C2	3S/3W -12Cx	APWA	Norton Street	2,000'W	46	1977	Irrigation
C3	3S/3W -12Cx	APWA	Norton Street	2,000'W	40	1977	Irrigation
C4	3S/3W -12Cx	APWA	Norton Street	2,000'W	35	1977	Irrigation
C5	3S/3W -12Cx	APWA	Endicott Street	1,500'WNW	20	1977	Irrigation
F1	3S/3W -12F1	APWA	Norton Street	1,800'W	18	1952	Irrigation
F2	3S/3W -12Fx	APWA	Fargo Avenue	1,500'WNW	26	1977	Irrigation

NA = Information Not Available
 DWR = Department of Water Resource
 APWA = County of Alameda Public Works Agency

Table 5
Well Construction Details
 Shell-branded Service Station
 15275 Washington Avenue, San Leandro

Map Number	Total Depth	Depth to Water (ft. bgs)	Casing Type	Casing Diameter (in.)	Screen Interval (ft. bgs)	Gravel Pack Interval (ft. bgs)	Annular Seal Depth (ft. bgs)	Annular Seal Material	Well Construction Method	Driller's log Number	Pumping Test Rate (gpm)	Test Duration (hours)
Q1	84	12	PVC	6	64-84	NA	22	Sand/Grout	Auger	33438	10	6
R80	603	NA	Steel	30/12	Various from 112 to 576	600	65	NA	Rotary	62015	1160	55
H1	525	32	NA	12	341-354, 490-511	NA	NA	NA	NA	NA	NA	NA
H2	720	NA	NA	28/12	660-720	NA	NA	NA	NA	NA	NA	NA
H3	75	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA
J1	370	NA	NA	12	275-358	NA	NA	NA	NA	NA	NA	NA
J2	460	NA	NA	12	NA	NA	NA	NA	NA	NA	750	NA
J3	550	NA	NA	12	NA	NA	NA	NA	NA	NA	750	NA
J4	80	9	NA	8	NA	NA	NA	NA	NA	NA	20	NA
J5	350	NA	NA	12	340-350	NA	NA	NA	NA	NA	NA	NA
R1	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
R4	38	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA
K2	42	NA	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
K4	30	13	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
L1	22	NA	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
L2	30	NA	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
L3	30	12	NA	4	NA	NA	NA	NA	NA	NA	6	NA
L4	30	14	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
L5	211	14	NA	10	NA	NA	NA	NA	NA	NA	200	NA
7M3	31	10.5	NA	NA	10.5-31	NA	NA	NA	NA	NA	NA	NA
G1	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	130	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA
G3	120	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
G4	150	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
A1	545	NA	NA	12	Various from 487-540	NA	NA	NA	NA	NA	NA	NA
A2	60	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA
B1	28	8	NA	4	NA	NA	NA	NA	NA	NA	NA	NA

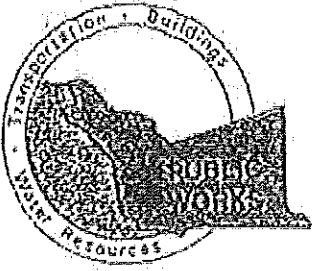
Table 5
Well Construction Details
 Shell-branded Service Station
 15275 Washington Avenue, San Leandro

Map Number	Total Depth	Depth to Water (ft. bgs)	Casing Type	Casing Diameter (in.)	Screen Interval (ft. bgs)	Gravel Pack Interval (ft. bgs)	Annular Seal Depth (ft. bgs)	Annular Seal Material	Well Construction Method	Driller's log Number	Pumping Test Rate (gpm)	Test Duration (hours)
B2	29	7	NA	4	NA	NA	NA	NA	NA	NA	15	NA
B3	28	8	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
B4	122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1	34	8	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
C2	46	38	NA	5	NA	NA	NA	NA	NA	NA	NA	NA
C3	40	31	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
C4	35	2	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
C5	20	11	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
F1	18	NA	NA	6	NA	NA	NA	NA	NA	NA	NA	NA
F2	26	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA

NA = Information Not Available

ft. bgs = Feet below ground surface

gpm = Gallons per minute



COUNTY OF ALAMEDA
PUBLIC WORKS AGENCY

399 Elmhurst Street • Hayward, CA 94544-1395
(510) 670-5480
FAX (510) 670-5262

FAX TRANSMITTAL FAX TRANSMITTAL FAX TRANSMITTAL FAX TRANSMITTAL

DATE: 3-30-95

TO: ENVIROS
Box 259

FROM: CRAIG JOHNSON
(510) 670-5248

SONOMA, CA 95476 (707) 939-2131

ATTN: GREG VAUGHAN

(707) 935-6649

OF PAGES (INCLUDING COVER SHEET) 9

COMMENTS:

WELL SURVEY .5 MILE RADIUS FROM LEWELLING + WASHINGTON,
SAN LEANDRO.

COVER SHEET, 1 MAP, 3 DATA, 4 EXPLANATION SHEETS.

If you do not receive the entire transmittal, or if it is illegible,
please call _____ at (510) 670-5543

WELL INVENTORY FILE

Definitions and abbreviations for items listed in the well inventory file are as follows:

[WELLNO] Well number - Wells are numbered according to their location in the rectangular system of the Public Land Survey. The part of the number preceding the slash indicates the township; the part following the slash indicates the range and section number; the letter following the section number indicates the 40-acre subdivision; and the final digit is a serial number for wells in each 40-acre subdivision.

[DAT] Date - The month and year when drilling or boring was completed.

[ELEV] Surface elevation - The surface elevation of the well, if known, in feet above mean sea level. A zero designates an unknown elevation.

[TD] Total depth - The depth of the well. This usually designates the completed well depth. If the well has a well log available on file, then the total drilled depth of the well is given. The inventory does not show total depth data for geotechnical borings. This is because only one state well number is assigned to one boring at a site, and there are usually several borings of different depth.

[DTW] Depth to water - This category usually indicates the standing groundwater level in the well on the date of completion. The "depth to first water encountered" is recorded in the inventory when it is the only water level data reported on the well driller's report.

[USE] Use - The well use (or in the case of cathodic protection wells and geotechnical borings, the reason for the excavation) as indicated in the well driller's report or data sheets. A plus sign (+) after the well use indicates a well in the current ACFC & WCD monitoring network.

[ABN] Abandoned well - A well whose use has been permanently discontinued or which is in such a state of disrepair that no water can be produced. In the inventory, this may include wells which are covered or capped but not properly destroyed.

[DES] Destroyed well - A well that has been properly filled so that it cannot produce water nor act as a vertical conduit for the movement of groundwater.

[DOM] Domestic well - A water well which is used to supply water for the domestic needs of an individual residence or systems of four or less service connections or "hookups".

[INA] Inactive well - A well not routinely operating but capable of being made operable with a minimum of effort. Also called a "standby well".

[IND] Industrial well - A water well used to supply industry on an individual basis.

[IRR] Irrigation well - A water well used to supply water only for irrigation or other agricultural purposes. In the inventory, this category includes large capacity wells as well as small capacity wells for lawn irrigation.

[MON] Monitoring or observation well - Wells constructed for the purpose of observing or monitoring groundwater conditions. (see piezometer).

[MUN] Municipal well - A water well used to supply water for domestic purposes in systems subject to Chapter 7, Part 1, Division 5 of the California Health and Safety Code. Included are wells supplying public water systems classified by the Department of Health Services. (Also referred to as community water supply wells).

[PIE] Piezometer - A piezometer is a well specifically designated to measure the hydraulic head within a zone small enough to be considered a point as contrasted with a well that reflects the average head of the aquifer for the screened interval.

[STO] Stock - A water well used primarily for livestock.

[TES] Test well and test hole - A test well is constructed for the purpose of obtaining the information needed to design a well prior to its construction. Such wells are not to be confused with "test holes" which are temporary in nature (i.e., uncased excavations whose purpose is the immediate determination of existing geologic and hydrologic conditions). Test wells are cased and can be converted to observation or monitoring wells, and under certain circumstances, to production wells. In the inventory, "TES" includes both test wells and test holes.

[?] Unidentified use - This indicates water wells whose use could not be ascertained from the available well data.

[CAT] Cathodic protection well - Any artificial excavation constructed by any method for the purpose of installing equipment or facilities for the protection from

corrosion by electrochemical methods of metallic equipment (usually piping) in contact with the ground; commonly referred to as cathodic protection.

[GEO] Geotechnical boring - A temporary boring made to determine certain engineering properties of soils. An asterisk (*) indicates that the state well number assigned to the boring represents more than one boring at a particular site.

[LOG] Log - This category indicates whether a geologic record, or log, for the well or boring is available in the Agency's files. Abbreviations are as follows:

D - well driller's log
G - geotechnical boring log
E - electric (resistivity) log or other subsurface geophysical logs.

[WQ] Water quality data available - This category indicates which wells have water quality data available in ACFC & WCD files. The numbers 1 through 9 signify the number of sets of water quality measurements available for that well. A plus sign (+) indicates that 10 or more sets of data are available. A "0" indicates that no data is available.

[WL] Water level data available - This category indicates which wells have water level data other than the data reported on the well driller's logs. The numbers 1 through 9 signify the number of water level measurements available. A plus sign (+) indicates that 10 or more measurements are available for that well. A "0" indicates that no data is available.

[YLD] Yield - The maximum pumping rate in gallons per minute that can be supplied by a well without lowering the water level in the well below the pump intake. This data is taken from pump test data recorded in the driller's records. Some of the yield data reflects current production rates and does not reflect maximum yield values determined in a capacity test.

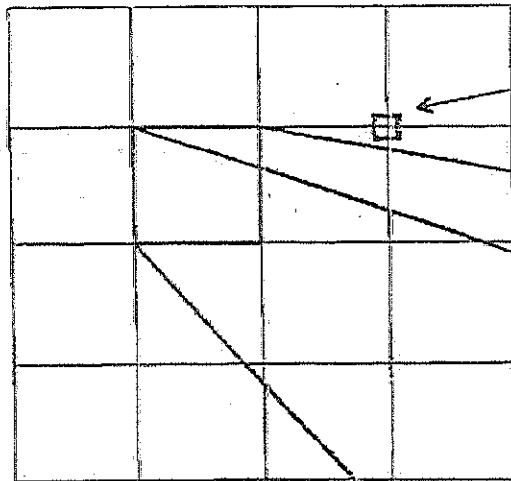
[DIA] Diameter - The diameter in inches of the main casing in a well. May also indicate the diameter of a hand-dug well. Diameter data is not recorded for geotechnical borings.

RANGE

3W 2W 1W 1E

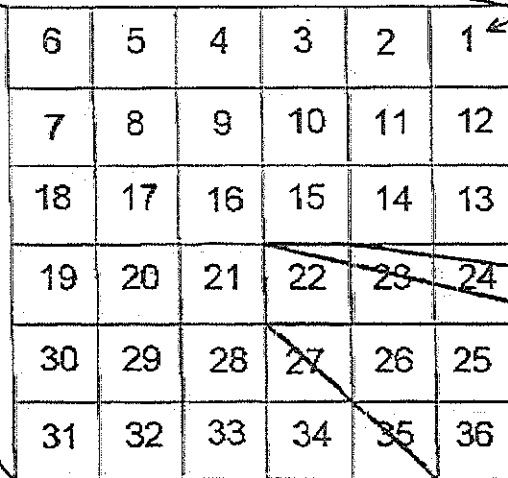
T
O
W
N
S
H
I
P

1N
1S
2S
3S



MT. DIABLO

SECTION #
1 SQUARE MILE



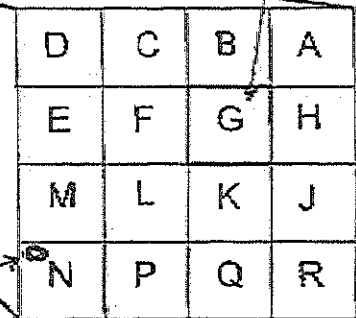
QUARTER QUARTER
SECTION LETTER
40 ACRES



24 MILES



6 MILES



1 MILE

WELL NUMBERING SYSTEM

1 SOUTH 2 WEST 22 N 5
1S/2W 22N5

8263 P08

APR-30-'95 THU 17:09 ID:ALAMEDA CO PUBLIC WK FAX NO:510/670-5262

WELL #	CITY	ADDRESS	OWNER	PHONE	USE	DR. DATE	DIAM	TOT. DEPTH	DTW	ST. ELEV	KA. ELEV	YIELD	LOG	WQ	WL	DATA	CRGM	MARGIN
35/3W 12F 7	SLR	890 FARCO AV	CHRIST PRESBYTERIAN		0 IRR	7/77	4	26	0	0	0	0	D	0	0			L
35/3W 12F 8	SLR	15190 GORTON ST	SAL. CAMPILONGO		0 IRR	5/77	6	35	2	0	0	0	D	0	0			L
35/3W 12G 1	SLR	625 FARCO AV			0 DOM	?	0	42	0	0	0	0	D	0	0			L
35/3W 12G 2	SLR	WASHINGTON & FARCO AVE	MOBIL OIL CORP		0 MON	03/86	2	20	10	0	0	0	G	0	0			L
36/3W 12G 3	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	12/86	4	20	7	22	0	0	G	0	0			L
35/3W 12G 4	SLR	15275 WASH. AVE.	SHELL OIL		0 MON	11/88	3	24	8	0	0	0	G	0	0			L
35/3W 12G 5	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	11/88	3	24	8	0	0	0	G	0	0			L
35/3W 12G 6	SLR	15275 WASH. AVE.	SHELL		0 MON	11/88	3	24	8	0	0	0	G	0	0			L
35/3W 12G 7	SLR	15275 WASH. AVE.	SHELL OIL		0 MON	11/88	3	20	2	0	0	0	G	0	0			L
35/3W 12G 8	SLR	15275 WASH. AVE.	SHELL OIL		0 MON	11/88	3	20	2	0	0	0	G	0	0			L
35/3W 12G 9	SLR	15275 WASH. AVE.	SHELL OIL		0 MON	11/88	3	25	8	0	0	0	G	0	0			L
35/3W 12G10	SLR	15275 WASH. AVE.	SHELL OIL		0 MON	11/88	3	24	8	0	0	0	G	0	0			L
35/3W 12G11	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	04/89	3	24	9	0	0	0	G	0	0			L
35/3W 12G12	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	05/89	3	24	9	0	0	0	G	0	0			L
35/3W 12G13	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	05/89	3	24	9	0	0	0	G	0	0			L
35/3W 12G14	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	05/89	3	24	9	0	0	0	G	0	0			C
35/3W 12G15	SLR	15275 WASHINGTON AVE	SHELL OIL		0 MON	05/89	3	24	8	0	0	0	G	0	0			L
35/3W 12G16	SLR	15201 WASH. AVE.	DESERT PETROLEUM		0 MON	09/88	2	28	20	0	0	0	D	Y	0			L
35/3W 12G17	SLR	15201 WASH. AVE.	DESERT PETROLEUM		0 MON	09/88	2	28	8	0	0	0	D	Y	0			L
35/3W 12G18	SLR	15201 WASH. AVE.	DESERT PETROLEUM		0 MON	09/88	2	29	9	0	0	0	D	Y	0			L
35/3W 12G19	SLR	14275 East Maddington St.	Shell Oil Company		0 TBS	10/89	6	22	11	0	0	0	D	0	0			D
35/3W 12G20	SLR	712 Lowellling Blvd.	ARCO		0 MON	8/90	2	41	6	10	0	0	G	0	0			D
35/3W 12G21	SLR	712 Lowellling Blvd.	ARCO		0 MON	6/90	2	72	9	0	0	0	G	0	0			D
35/3W 12G22	SLR	712 Lowellling Blvd.	ARCO		0 MON	6/90	2	12	11	0	0	0	G	0	0			D
35/3W 12G23	SLR	712 Lowellling Blvd	ARCO Prod. Co.	HW-4	0 MON	5/91	2	18	8	0	0	0	D	0	0			D
35/3W 12G24	SLR	712 Lowellling Blvd	ARCO Prod. Co.	HW-5	0 MON	5/91	4	20	8	0	0	0	D	0	0			D
35/3W 12G25	SLR	712 Lowellling Blvd	ARCO Prod. Co.	HW-6	0 MON	5/91	4	16	0	0	0	0	D	0	0			D
35/3W 12G26	SLR	712 Lowellling Blvd	ARCO Prod. Co.	HW-7	0 MON	5/91	4	15	9	0	0	0	D	0	0			D
35/3W 12G27	SLR	712 Lowellling Blvd	ARCO Prod. Co.	HW-8	0 MON	5/91	4	16	9	0	0	0	D	0	0			D
35/3W 12G28	SLR	15275 Washington Ave	Shell Oil Co	SLR	0 TEST	5/91	3	19	2	0	0	0	H	0	0			D
35/3W 12K19	SLR	15301 Washington Ave.	Arco Products Co.	HW-14	0 MON	8/92	2	13	12	0	0	0	H	0	0			D
35/3W 12G30	SLR	712 Lowellling Blvd.	ARCO HW-15		0 MON	3/93	2	11	6	0	0	0	D	0	0			D
35/3W 12G31	SLR	712 Lowellling Blvd.	ARCO HW-13		0 MON	11/92	2	14	12	0	0	0	G	0	0			D
35/3W 12G32	SLR	712 Lowellling Blvd.	ARCO #601 HW-11		0 MON	10/92	4	12	9	0	0	0	G	0	0			D
35/3W 12G33	SLR	712 Lowellling Blvd.	ARCO #601 HW-12		0 MON	10/92	4	13	6	0	0	0	G	0	0			D
35/3W 12K 1	SLR	15100 WASHINGTON AV	SAN LORENZO NURSERY		0 IRR	6/57	12	525	21	23	-9	0	D	0	0			D
35/3W 12K 2	SLR	15100 WASHINGTON AV	SAN LORENZO NURSERY		0 ABN	10/47	12	720	0	23	0	0	D	0	0			L
35/3W 12K 3	SLR	15100 WASHINGTON	MODERN VEGETABLE NURSERY		0 IRR	/32	12	360	0	24	0	0	D	0	0			L
35/3W 12K 4	SLR	15125 WASHINGTON	N. MANDIE SPALCO		0 IRR	/20	10	130	0	0	0	0	D	0	0			L
35/3W 12K 5	SLR	15660 WASHINGTON AVE	FRANK BERRY		0 IRR	8/78	6	80	9	0	0	0	D	0	0			L
35/3W 12K 6	SLR	15595 WASHINGTON AVE	TEXACO		0 MON	08/86	2	15	11	0	0	0	G	0	0			L
35/3W 12K 7	SLR	15695 WASHINGTON AVE	TEXACO		0 MON	08/86	2	16	12	0	0	0	G	0	0			L
35/3W 12K 1	SLR	915 LOWELLING CT	E. PIANETTA		0 IRR	/25	12	130	0	17	0	0	D	0	0			L
35/3W 12K 2	SLR	963 LOWELLING BLVD	W. JONES		0 IRR	?	6	42	0	17	0	0	D	0	0			L
35/3W 12K 3	SLR	15547 ANDOVER ST	RAGLE		0 IRR	/77	6	30	13	0	0	0	D	0	0			L
35/3W 12L 1	SLR	15788 ANDOVER ST	E. PIANETTA		0 IRR	/57	6	22	0	0	0	0	D	0	0			L
35/3W 12L 2	SLR	15747 GORTON ST	BUSKE		0 IRR	/53	6	30	0	0	0	0	D	0	0			L
35/3W 12L 3	SLR	15696 TILDEN ST	ROBERT PERINO		0 IRR	2/77	4	30	12	0	0	0	D	0	0			L
35/3W 12L 4	SLR	1018 CLARKE ST	MURPHY ELLIOTT		0 IRR	1/77	6	30	14	0	0	0	D	0	0			L
35/3W 12K 1	SLR	15311 PARNBROOK ST	STANTON		0 IRR	/86	6	36	8	0	0	0	D	0	0			L
35/3W 12K 2	SLR	15301 PARNBROOK ST	H. KOENIGLST.		0 IRR	?	6	30	0	9	0	0	D	0	0			L
35/3W 12K 4	SLR	15207 PARNBROOK ST	HUBERT HUSSELL		0 IRR	5/77	6	24	7	0	0	0	D	0	0			L
35/3W 12P 1	SLR	TWIN PAINS	RASEOLA		0 IRR	?	3	0	0	17	0	0	D	0	0			L
35/3W 12Q 1	SLR	15701 Lorenzo Ave.	Arroyo N.S. (Llano OSD)		0 PTE	1/91	2	20	0	0	0	0	D	0	0			D
35/3W 12Q 2	SLR	15701 Lorenzo Ave.	Arroyo N.S. (Llano OSD)		0 MON	1/91	2	25	11	0	0	0	G	0	0			B
35/3W 12Q 3	SLR	15701 Lorenzo Ave.	Arroyo N.S. (Llano OSD)		0 MON	1/91	2	25	11	0	0	0	G	0	0			D
35/3W 12R 2	SLR	14651 WASHINGTON	CORCO		0		0	0	0	0	0	0	D	0	0			A
35/3W 12R 4	KAY	GRANT & WASHINGTON	TON CLEMENTE		0 IRR	12/89	8	38	0	0	0	0	D	0	0			L
35/3W 12R 5	SLR	597 Grant Ave.	Chevron USA		0 MON	9/90	4	15	10	0	0	0	D	0	0			D
35/3W 12R 6	SLR	597 Grant Ave.	Chevron USA		0 MON	11/90	2	22	13	0	0	0	D	0	0			D
35/3W 12R 7	SLR	597 Grant Ave	Chevron USA		0 MON	11/90	2	28	11	0	0	0	D	0	0			D

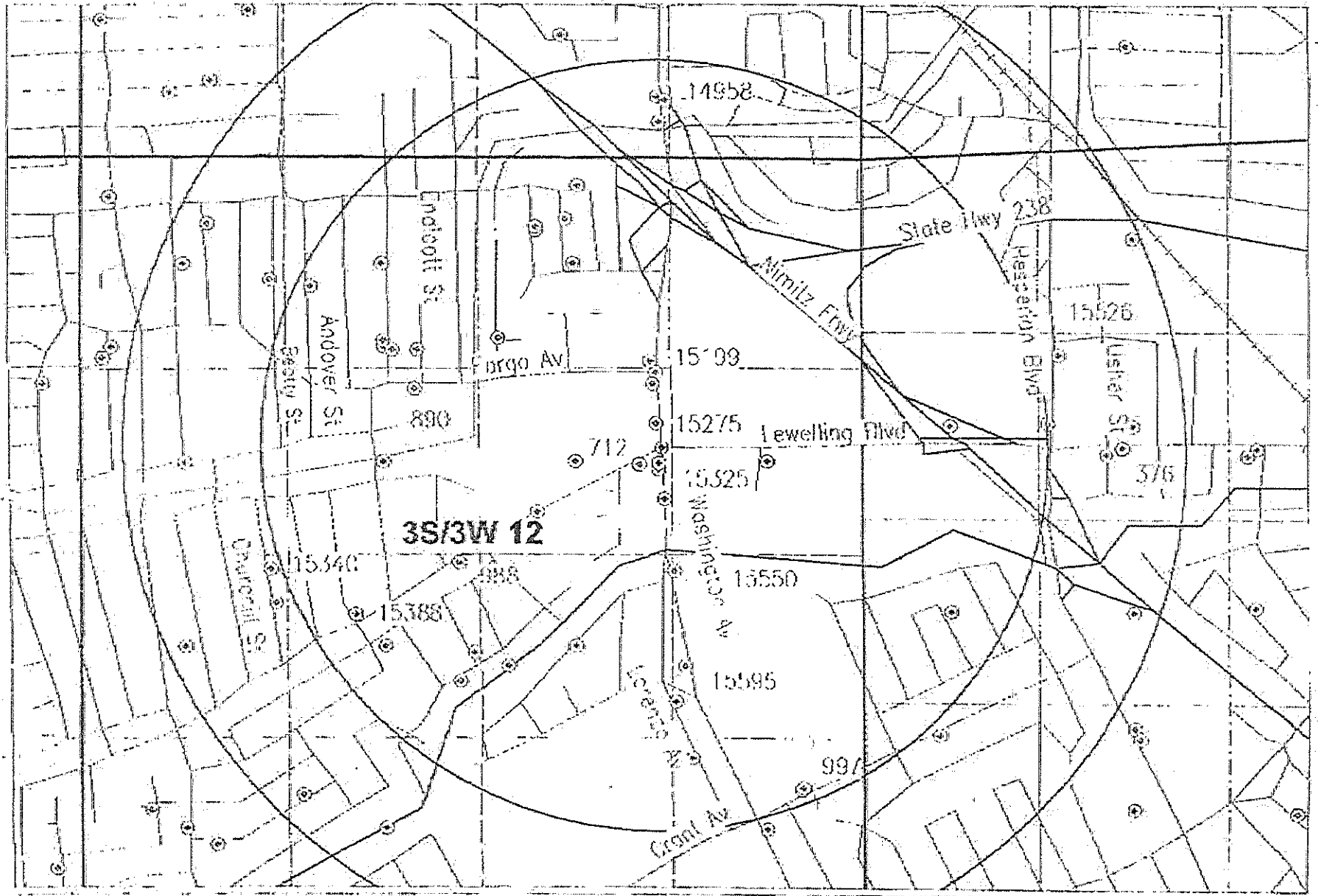
Yes
Yes
Yes
Yes

.5 mile radius from Lewelling & Washington Ave. (Page 3)

WELL #	CITY	ADDRESS	OWNER	PHONE	USE	DR. DATE	DIAM	TOT. DEPTH	DTW	ST. ELEV	GR. ELEV	YIELD	LOG	WQ	GL	DATA	ORGN	MARGIN
38/3W 12R 8	SLE	187 Grant Ave.	Chevron USA	0	MON	11/90	2	27	12	0	0	0	D	0	0			D
38/3W 12R 8	SLE	157 Grant Ave	Chevron USA	0	MON	2/91	2	14	4	180	96	0	G	0	0			D
38/3W 12R 9	SLE	15704 Lorente Ave.	SLE Unified School Dist.	0	MON	8/92	2	24	28	0	0	0	D	0	0			D
38/3W 12R10	SLE	15201 Nicks Blvd.	SLE Unified School Dist.	0	MON	8/92	2	25	14	0	0	0	D	0	0			D
38/3W 12R11	SLE	15221 Nicks Blvd.	SLE Unified School Dist.	0	MON	8/92	2	28	11	0	0	0	D	0	0			D
38/3W 12R12	SLE	15221 Nicks Blvd.	SLE Unified School Dist.	0	MON	8/92	2	28	5	0	0	0	D	0	0			D
38/3W 12R13	SLE	197 Grant Ave	Chevron USA	0	MON	2/93	2	21	15	0	0	0	G	0	0			D
38/3W 13B 1	SLE	15550 WASHINGTON AV	MODERN VEGETABLE NURSERY	0	JRR	6/48	12	550	0	0	0	0	D	0	0			D
38/3W 14A 2	SLE	SAN LORENZO WELLS FIELD	USACO	0	MUN	10/15	10	834	0	7	0	0	D	0	0			L
38/3W 14B 1	SLE	LEWELLING	TROGAN POWDER CO.	0	ABN	?	12	533	0	6	0	0	D	0	0			L
38/3W 14C 4	SLE	LEWELLING BLVD	LIVERMORE-AMADOR VALLEY	0	CAT	5/79	0	140	0	0	0	0	D	0	0			L
38/3W 14F 1	SLE	LEWELLING BLVD	TROGAN POWDER CO.	0	ABN	10/15	12	769	0	0	0	0	D	0	0			L
38/3W 14G 1	SLE	LEWELLING	TROGAN POWDER CO.	0	ABN	8/15	12	600	0	0	0	0	D	0	0			L
38/3W 14G 2	SLE	LEWELLING BLVD	TROGAN POWDER CO.	0	ABN	8/19	12	785	0	5	0	0	D	0	0			L
38/3W 14H 3	SLE	LEWELLING BLVD	TROGAN POWDER CO.	0	ABN	?	10	0	0	0	0	0	T	0	0			L

H263 P09

MAR-30-'95 THU 17:10 ID:ALAMEDA CO PUBLIC WK FAX NO:510/670-5262



**.5 mile radius from Lewelling & Washington Ave.
03/30/1995**

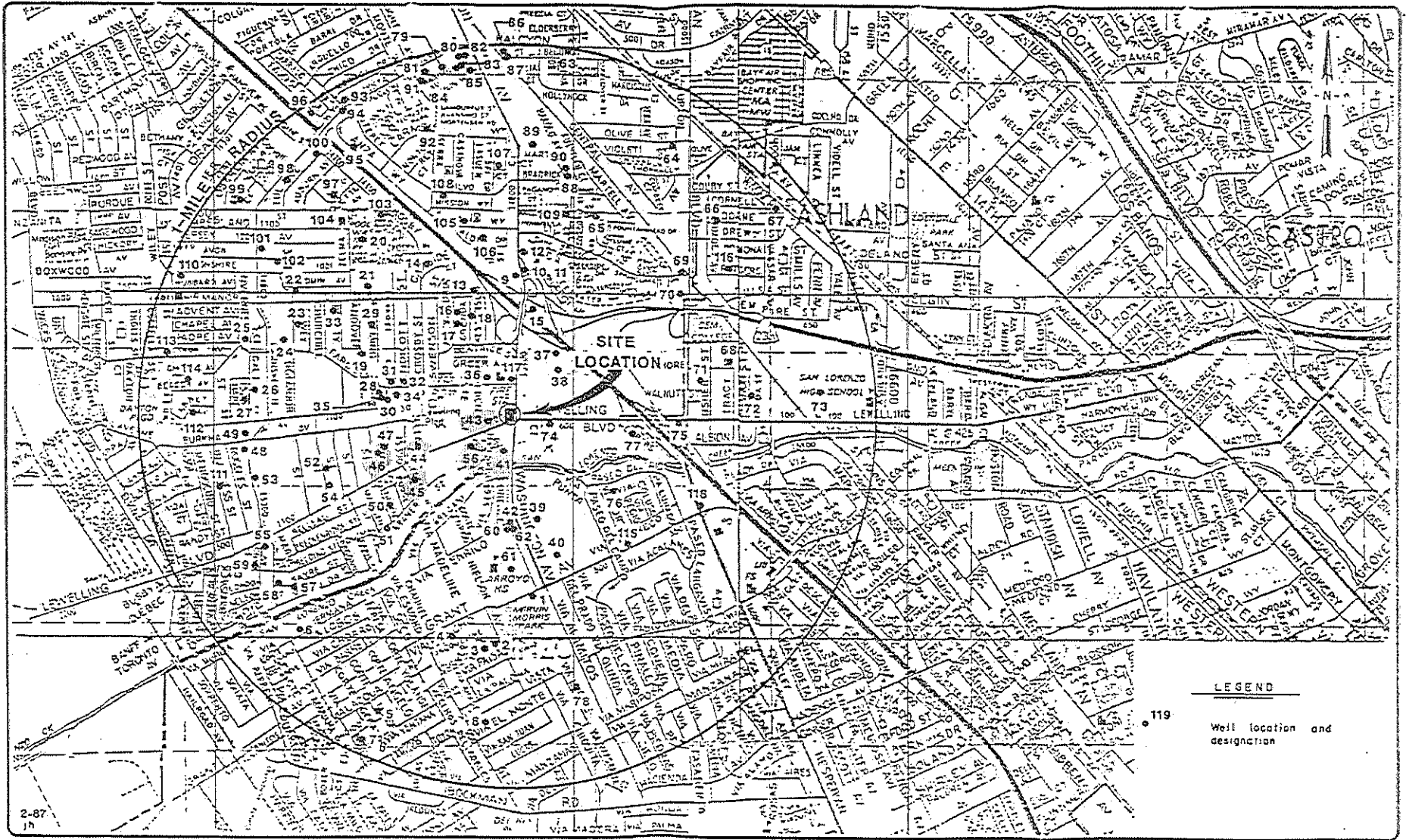
EMCON WELL NUMBER	DATE DRILLED, DRILLER	WELL OWNER LISTED	STATUS IF KNOWN	WELL CONSTRUCTION DETAILS								EDITED DRILLER REPORTS	
				TOT. DPTH (FT.)	COMP. DPTH (FT.)	PERF. INTER. (FT.)	SEAL DPTH (FT.)	CASE DIA. (IN.)	CASE MAT.	WAT. LEV. (FT.)	EST. Q (GPM)		SURF. ELEV. (FT.)
1	1900 Owner	Heide 90 Grant San Lorenzo	Domestic	?	36			6					
2	1935 Owner	Gianelli 143 Grant San Lorenzo	Irrig.	?	113	48-113		10-8					
3	6/12/48 ?	Modern Veg. Nursery 15550 Washington Ave. San Lorenzo	Irrig.	?	?			12					
4	? ?	Gianelli 15841 Nielson Ave San Lorenzo	Irrig.	?	113	48-113							
5	Owner ?	Bratton 15868 Corte Ulisse, San Lorenzo	Irrig.	?	21								
6	Owner ?	Movers 1508 Via Hermana San Lorenzo	Irrig.	?	30								
7	? ?	Norris 16030 Via Nueva San Lorenzo	Irrig.	?	20								
8	8/5/56 Domestic Water Well Company	Lichty 16148 Channel St. San Lorenzo	Irrig.	?	30	15-30		6					

EMCON WELL NUMBER	DATE DRILLED, DRILLER	WELL OWNER LISTED	STATUS IF KNOWN	WELL CONSTRUCTION DETAILS								EST. Q (GPM)	SURF. ELEV. (FT.)	EDITED DRILLER REPORTS
				TOT. DPTH (FT.)	COMP. DPTH (FT.)	PERF. INTER. (FT.)	SEAL DPTH (FT.)	CASE DIA. (IN.)	CASE MAT.	WAT. LEV. (FT.)				
9	1920 ?	Marengo 14953 Washington San Lorenzo		?	60				8					
10	1936 White	Twn. Nursery Corp. 14958 Washington San Lorenzo	Irrig.	?	335				14			23		
11	1936 White	Twn. Nursery Irrig. Corp. 14958 Washington San Lorenzo	Irrig.	?	325				14			23		
12	5/26/78 AR-GO Pump Co.	McCarthy 2770 Scott Blvd. Santa Clara		?	?									
13	1930 ?	Fara Bros. Domestic 391 W. 150th San Lorenzo	Domestic	?	120	99-110			10			20		
14	1949 Owner	Ramirez 14960 Crosby San Lorenzo	Irrig.	?	32	22-32			4					
15	9/28/34 G.P. Nelson	Gansberger		?	545	487-492 453-469 518-520 521-528 530-540			12			35		

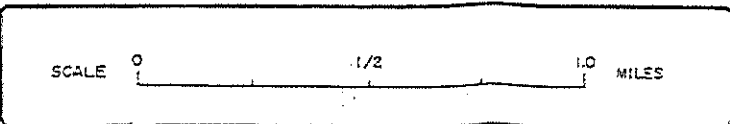
EMCON WELL NUMBER	DATE DRILLED, DRILLER	WELL OWNER LISTED	STATUS IF KNOWN	WELL CONSTRUCTION DETAILS								EDITED DRILLER REPORTS	
				TOT. DPTH (FT.)	COMP. DPTH (FT.)	PERF. INTER. (FT.)	SEAL DPTH (FT.)	CASE DIA. (IN)	CASE MAT.	MAT. LEV. (FT.)	EST. Q (GPM)		SURF. ELEV. (FT.)
40	1932	Modern Vegetable Nursery 15550 Washington San Leandro	Irrig.	?	350	340-350		12				24	
41	1920	Gualco Swan 15325 Washington San Leandro	Irrig.	?	130			10				24	
42	1978	Perry Wood Co. 15600 Lorenzo San Lorenzo	Irrig.	?	?								
43	1925	Pianetta Nunes 915 Lewelling San Lorenzo	Irrig.	?	120	100-120		12				17	
44		Jones Owner 983 Lewelling San Lorenzo	Irrig.	?	42	30-42		6				17	
45		Raele 15547 Sedgeham San Leandro	Irrig.	?	?								
46	1957	Pianetta Owner 15388 Andover San Leandro	Irrig.	?	22			6				21	

EMCON WELL NUMBER	DATE DRILLED, DRILLER	WELL OWNER LISTED	STATUS IF KNOWN	WELL CONSTRUCTION DETAILS								EDITED DRILLER REPORTS	
				TOT. COMP DPTH (FT.)	DPTH (FT.)	PERF. INTER. (FT.)	SEAL DPTH (FT.)	CASE DIA. (IN)	CASE MAT.	WAT. LEV. (FT.)	EST. Q (GPM)		SURF. ELEV. (FT.)
	?	Gonzales											
71	?	15559 Usher Irrig San Leandro		?	25								38
72	1955 Owner	Maciel 15594 Sharon San Lorenzo	Irrig.	?	27			4					44
73	1951 Western Well	Hayward Union High Irrig School Dist. San Lorenzo	Domestic	?	616			30/14					42
74	1937 Swanson	Teel 624 Lewelling San Lorenzo	Domestic	?	75			8					
75	1949 Anderson	Ratti Lewelling? Hesperian San Lorenzo	Domestic Irrig.	?	410								
76	? ?	Levy 646 Via Del Oro San Lorenzo	Irrig.	?	22			4					28
77	1920 ?	Kino Nurs- ery 880 Lewelling San Lorenzo	Irrig.	?	150			12					33

EMCON WELL NUMBER	DATE DRILLED, DRILLER	WELL OWNER LISTED	STATUS IF KNOWN	WELL CONSTRUCTION DETAILS								EDITED DRILLER REPORTS		
				TOT. DPTH (FT.)	COMP. DPTH (FT.)	PERF. INTER. (FT.)	SEAL DPTH (FT.)	CASE DIA. (IN.)	CASE MAT.	MAT. LEV. (FT.)	EST. Q (GPM)		SURE ELEV. (FT.)	
78	?	P. Duncan Irrig. 16089 Via Alámitos San Lorenzo Avansino	Irrig.	?	?									
79	1951	Bassett Washington San Leandro	Irrig.	?	701			12					36	
80	1951	Abansino Mortenson Nursery Co. 14441 Washington San Leandro	Irrig.	?	701								35	
81	1952	Abansino Mortenson Nursery Co. 14441 Washington San Leandro	Irrig.	?	701								32	
82	1937	Abansino Mortenson Nursery Co. 14441 Washington San Leandro	Irrig.	?	288			10					35	
83	?	Abansino Mortenson Nursery Co. 14441 Washington San Leandro	Irrig.	?	135			8/10					38	
84	1931	Abansino Mortenson Nursery Co. 14441 Washington San Leandro	Irrig.	?	235			12					34	



2-87
JH



GETTLER-RYAN INC.
 SUBSURFACE HYDROGEOLOGIC INVESTIGATION
 SHELL SERVICE STATION, 15275 WASHINGTON AVE.
 SAN LORENZO, CALIFORNIA

WELL SURVEY MAP

FIGURE
 1

PROJECT NO.
 738-08.03

APPENDIX B
BORING LOGS

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-1

PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling ,

PAGE 1 OF 2

BY JB DATE 6/18/85

San Leandro

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ FL)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		ASPHALT	
				1	GC FILL		CLAYEY GRAVEL; Fill; dark olive gray (5Y, 3/2); fine to coarse gravel; 30-35% fines; damp; no product odor.
				3	CL		CLAY; dark gray (5Y, 4/1); trace fine sand; slightly silty; moist; no product odor.
			▽				
	1.25	28		10			@8.5': black (2.5Y, 3/0); no product odor. @10': grayish brown (2.5Y, 5/2); stiff; wet; slight product odor.
	3.0	25		15			
	1.5	12		20			@20': light olive brown (2.5Y, 5/4); very silty; firm; wet; no product odor.

REMARKS Drilled using 8-inch continuous flight hollow-stem auger.
Converted to a 3-inch monitoring well, detailed on Plate C.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-1


PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling,

PAGE 2 OF 2

BY JB DATE 6/18/85

San Leandro

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Fl.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				20			HOLE TERMINATED AT 21½ FEET.
				25			

REMARKS



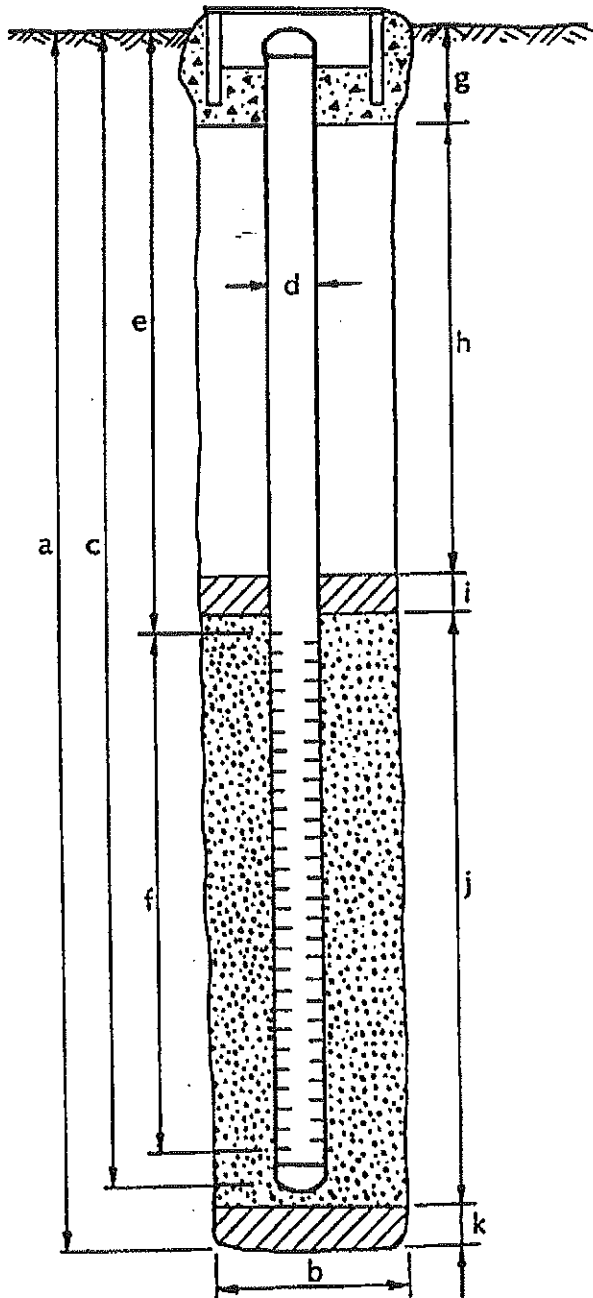
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-1
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 21½ ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 19 ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 15 ft.
 Perforated interval from 4 to 19 ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 2 ft.
 Backfill material Cement
 i. Seal ½ ft.
 Seal material Bentonite
 j. Gravel pack (3½ to 19') 15½ ft.
 Pack material 6 x 12 Monterey Sand
 k. Bottom seal 2½ ft.
 Seal material Bentonite 20-21½
Compacted Clay 19-20

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-2

PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling,
San Leandro

PAGE 1 OF 1

BY JB DATE 6/18/85

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0		ASPHALT	
				1		GC FILL	GRAVEL; Fill; 30% fines
				11		CL	CLAY; dark gray (5Y, 3/1); trace fine sand; slightly silty; moist; slight product odor.
			▽	5		SM	
	2.0	32		7		CL	SILTY SAND; very dark gray (5Y, 3/1); 50% fine sand; 50% silt; loose; wet; strong product odor.
				10		CL	CLAY; black (2.5Y, 2/0); slightly silty; very stiff; very moist; slight product odor.
	3.0	28		13.5		CL	@13.5': grayish brown (2.5Y, 5/2); stiff; wet; no product odor.
				15		CL	
	1.75	15		18.5		CL	@18.5': light brownish gray (2.5Y, 6/2); 40% silt; trace fine sand; stiff; wet; no product odor.
				20		CL	HOLE TERMINATED AT 20 FEET.

REMARKS Drilled using 8-inch continuous flight hollow-stem auger. Converted to 3-inch monitoring well, detailed on Plate E.



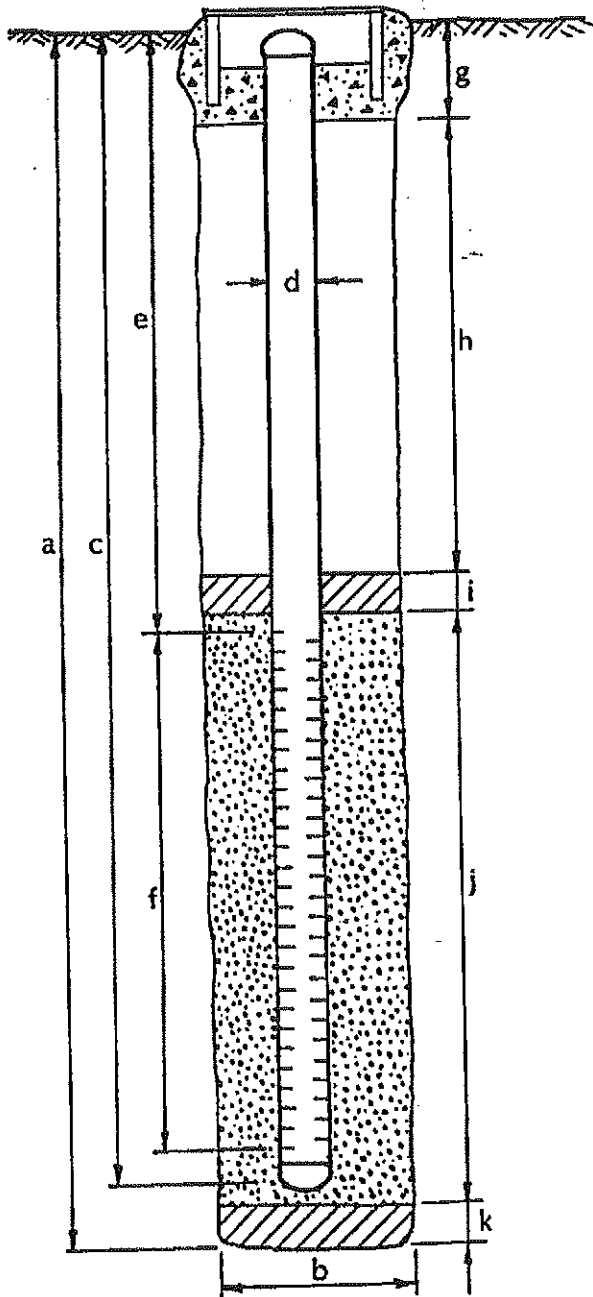
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-2
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 20 ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 18 1/2 ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 14 1/2 ft.
 Perforated interval from 4 to 18 1/2 ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 2 ft.
 Backfill material Cement
 i. Seal 1/2 ft.
 Seal material Bentonite
 j. Gravel pack (3 1/2 to 18 1/2') 15 ft.
 Pack material 6 x 12 Monterey Sand
 k. Bottom seal 1 1/2 ft.
 Seal material Compacted clay

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01

BORING NO. S-3






















PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling,

PAGE 1 OF 1

BY JB DATE 6/18/85

San Leandro

SURFACE ELEV.

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0			ASPHALT GRAVEL; Fill
				1			CLAY; dark gray (5Y, 3/1); slightly silty; trace fine sand; moist; slight product odor.
				2			
				3			
		12	▽	4			SILTY SAND TO SANDY SILT; very dark gray (5Y, 3/1); 50% fine sand; 50% silt; loose wet; strong product odor; saturated with product
				5			
				6			CLAY; dark gray (5Y, 4/1); silty; firm; very moist; slight product odor.
				7			
				8			
	1.25	11		9			@ 10': no product odor.
				10			
				11			@ 15': stiff; wet; no product odor.
				12			
				13			
	3.0	24		14			HOLE TERMINATED AT 16 1/2 FEET.
				15			
				16			
				17			
				18			
				19			
				20			

REMARKS Drilled using 8-inch continuous flight hollow-stem auger. Converted to 3-inch monitoring well, detailed on Plate G.



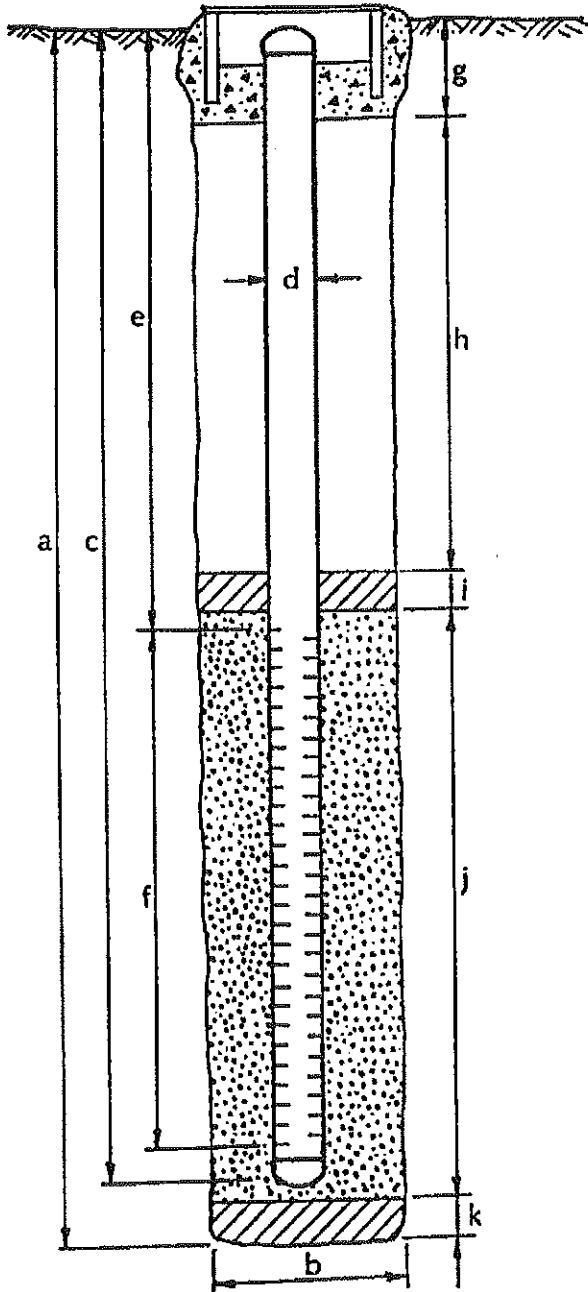
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-3
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 16½ ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 16½ ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 12½ ft.
 Perforated interval from 4 to 16½ ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 1 ft.
 Backfill material Cement
 i. Seal 1 ft.
 Seal material Bentonite
 j. Gravel pack (3 to 16½') 13½ ft.
 Pack material 6x12 Monterey Sand
 k. Bottom seal - ft.
 Seal material -

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.01 BORING NO. S-4
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling, PAGE 1 OF 1
 BY JDB DATE 6/18/85 San Leandro SURFACE ELEV.

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
				0		CONCRETE.	
					GW	GRAVEL FILL.	
					CL	CLAY; dark gray (2.5Y, 3/2);	slightly silty; moist; slight product odor.
		11	▽	5	SP-ML	SILTY SAND to SANDY SILT;	very dark gray (5Y, 3/1); loose; wet; strong product odor; saturated with product.
					CL	CLAY; dark gray (5Y, 4/1);	very silty; firm; wet; moderate product odor.
	2.0	9		10			
							@ 15': less silt; stiff; no product odor.
	2.75	24		15			
							HOLE TERMINATED AT 18 FEET.
				20			

REMARKS Drilled using 8-inch continuous flight hollow-stem auger. converted to 3-inch monitoring well as detailed on Plate I.



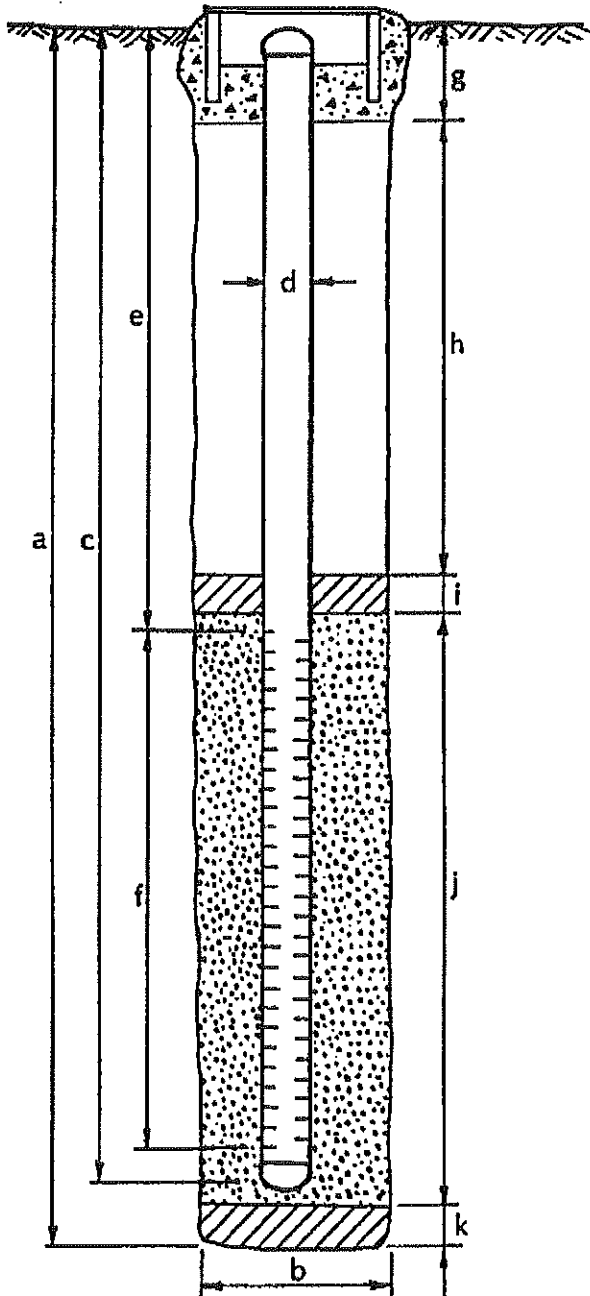
WELL DETAILS



PROJECT NUMBER 738-08.01
 PROJECT NAME Gettler-Ryan, Shell @ Washington & Lewelling
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-4
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. _____
 DATUM _____

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 18 ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 18 ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 4 ft.
 f. Perforated length 14 ft.
 Perforated interval from 4 to 18 ft.
 Perforation type Machined Slot
 Perforation size 0.020 inch
 g. Surface seal 1 ft.
 Seal material Cement
 h. Backfill 1 ft.
 Backfill material Cement
 i. Seal 1 ft.
 Seal material Bentonite
 j. Gravel pack (3 to 18') 15 ft.
 Pack material 6x12 Monterey Sand
 k. Bottom seal _____ ft.
 Seal material _____

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.02

BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, Lewelling Bl. & Washington Av. PAGE 1 OF 1

BY EBL DATE 8/15/86

San Leandro

SURFACE ELEV. 22'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
	2.0	10	▽	5		ML	ASPHALT, SAND, AND GRAVEL-FILL.
				5		ML	SANDY SILT; very dark gray (10YR, 3/1); 30-40% fine sand; soft; wet; strong product odor.
				8	1	CH	CLAY; black (10YR, 2/1); 10-20% fine sand; stiff; wet; strong product odor.
				10			BOTTOM OF BORING AT 8 FEET.
				15			
				20			
				25			
				30			
				35			
				40			

REMARKS

Drilled by 8-inch continuous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Boring backfilled with cuttings to 1 foot; concrete to surface.

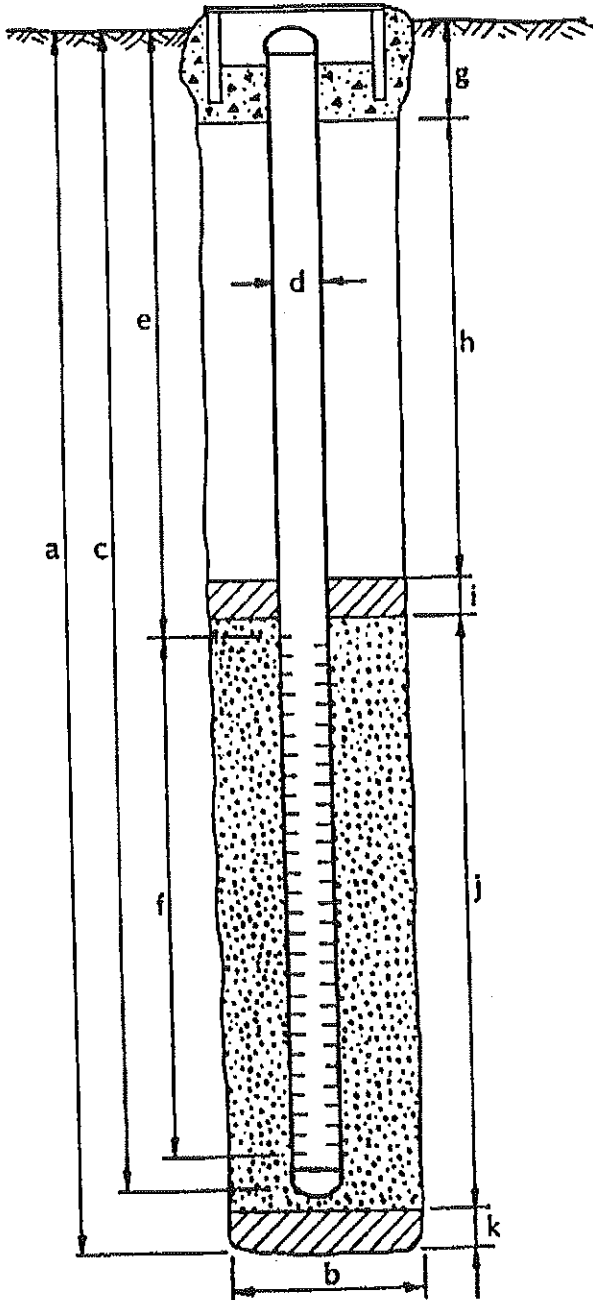
WELL DETAILS



PROJECT NUMBER 738-08.02
 PROJECT NAME G-R Shell, San Leandro
 COUNTY Alameda
 WELL PERMIT NO. _____

BORING / WELL NO. S-B
 TOP OF CASING ELEV. _____
 GROUND SURFACE ELEV. 22' MSL
 DATUM USGS

G-5 vault box (Std.)



EXPLORATORY BORING

a. Total depth 15.5 ft.
 b. Diameter 8 in.
 Drilling method Hollow-Stem Auger

WELL CONSTRUCTION

c. Casing length 15.5 ft.
 Material Schedule 40 PVC
 d. Diameter 3 in.
 e. Depth to top perforations 1 ft.
 f. Perforated length 14.5 ft.
 Perforated interval from 14.5 to 1 ft.
 Perforation type Machined Slot
 Perforation size .020 inch
 g. Surface seal 0.3 ft.
 Seal material Bentonite
 h. Backfill 0 ft.
 Backfill material _____
 i. Seal 0.7 ft.
 Seal material Concrete
 j. Gravel pack (13.9 to 1 Ft.) 12.9 ft.
 Pack material Coarse Aquarium Sand
 k. Bottom seal 0 ft.
 Seal material _____
 Note: Borehole caved to 13.9 feet.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.02 BORING NO. S-C
 PROJECT NAME Gettler-Ryan, Shell, Lewelling Bl. & Washington Av. PAGE 1 OF 1
 BY EBL DATE 8/15/86 San Leandro SURFACE ELEV. 22' ± MSL

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
			▽	4	1	SW	CONCRETE, SAND, and GRAVEL- FILL.
				5	2	CL	SAND-FILL; dark gray (10YR, 4/1); < 10% fines; fine to coarse sand; loose; damp; strong product odor.
				10	3	SW	CLAY-FILL; very dark gray (2.5Y, N3); 10-20% fine sand; soft; moist; strong product odor.
1.5		13		15	4	CH	SAND-FILL; dark gray (10YR, 4/1); < 10% fines; fine to coarse sand; loose; wet; strong product odor.
3.0		21		17	5	CH	CLAY; very dark grayish brown. (2.5Y, 3/2); 15-25% fine sand; stiff; wet; faint product odor.
2.5				20			@ 14': very stiff; faint product odor. @ 15-1/2': stiff; moist; no product odor.
				25			
				30			
				35			
				40			BOTTOM OF BORING AT 17 FEET.

REMARKS

Drilled by 8-inch continuous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Boring backfilled with Bentonite to 12 feet, cuttings to 1 foot, and concrete to surface.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.02

BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, Lewelling Bl. & Washington Av. PAGE 1 OF 1

BY EBL DATE 8/15/86

San Leandro

SURFACE ELEV. 22' ± MSL

TORVANE (TSF)	POCKET PENETRO- METER (PSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				5	1	SP	CONCRETE, SAND, and GRAVEL-FILL.
		2	▽	7	2		SAND; very dark gray (10YR, 3/1); < 10% fines; fine sand; loose; moist; strong product odor.
				10	3		@ 7': moderate product odor.
		12		11			@ 11': wet; strong product odor; product sheen on sampler.
	3.0	26		15	4	CL	CLAY; very dark grayish brown; (2.5Y, 3/2); 10-20% fine sand; very stiff; moist; no product odor.
				15.5			BOTTOM OF BORING AT 15-1/2 FEET.
				20			
				25			
				30			
				35			
				40			

REMARKS

Drilled by continuous-flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler. Boring backfilled with Bentonite to 12 feet, cuttings to 1 foot, and concrete to surface.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.03

BORING NO. S-5

PROJECT NAME Gettler-Ryan, Shell, Washington & Lewelling

PAGE 1 OF 2

BY JDB DATE 12/24/86

SURFACE ELEV. 21.71'

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				1	GP		ASPHALT
				2	CL		GRAVEL-FILL; coarse baserock.
				3			CLAY; dark gray (5Y, 4/1); 98-100% low- to moderate-plasticity fines; <2% fine sand; stiff; damp; no gasoline odor.
				4			@4': slight gasoline odor.
	1.25	9	▽	5	1	SC	CLAYEY SAND; dark gray (5Y, 4/1); 20-40% low-plasticity fines; 60-80% fine sand; loose; moist; slight to mod- erate gasoline odor.
			▽	6	ML		SANDY SILT; dark gray (5Y, 4/1); 70-90% non-plastic fines; 10-30% fine sand; stiff; moderate gasoline odor.
				7	CH- CL		CLAY; black (5Y, 2.5/1); 100% moderate- to high-plasticity fines; occasion- ally calcareous; stiff to very stiff; wet in voids; slight gasoline odor to 10 feet.
	1.5	17		10	2		
				14	CH		@14': gray (5Y, 6/1); 100% high-plas- ticity fines; very stiff; very moist; no gasoline odor.
	2.25	22		15	3		@19': abundant caliche disseminated; no gasoline odor.
	2.0	29		20	4		

REMARKS

Drilled with 8- and 12-inch continuous-flight, hollow-stem auger drilling equipment. Converted to a 4-inch monitoring well as detailed on Plate B.

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-08.03

BORING NO. S-5

PROJECT NAME Gettler-Ryan, Shell, Washington & Lewelling

PAGE 2 OF 2

BY JDB DATE 12/24/86

SURFACE ELEV. 21.71'

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT. SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				20	[Hatched Box]	BOTTOM OF BORING AT 20.5 FEET
				25		
				30		
				35		
				40		

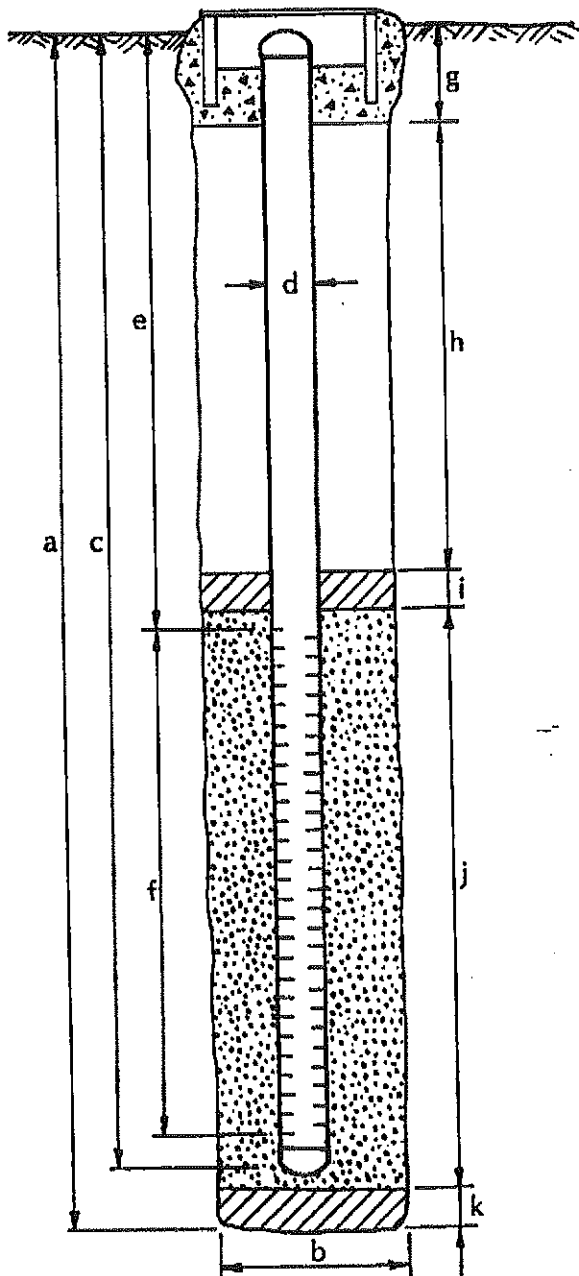
REMARKS

WELL DETAILS



PROJECT NUMBER 738-08.03 BORING / WELL NO. S-5
 PROJECT NAME Shell, Washington & Lewelling TOP OF CASING ELEV. 21.24'
 COUNTY Alameda San Leandro GROUND SURFACE ELEV. 21.71'
 WELL PERMIT NO. _____ DATUM Project

G-5 vault box (Std.)



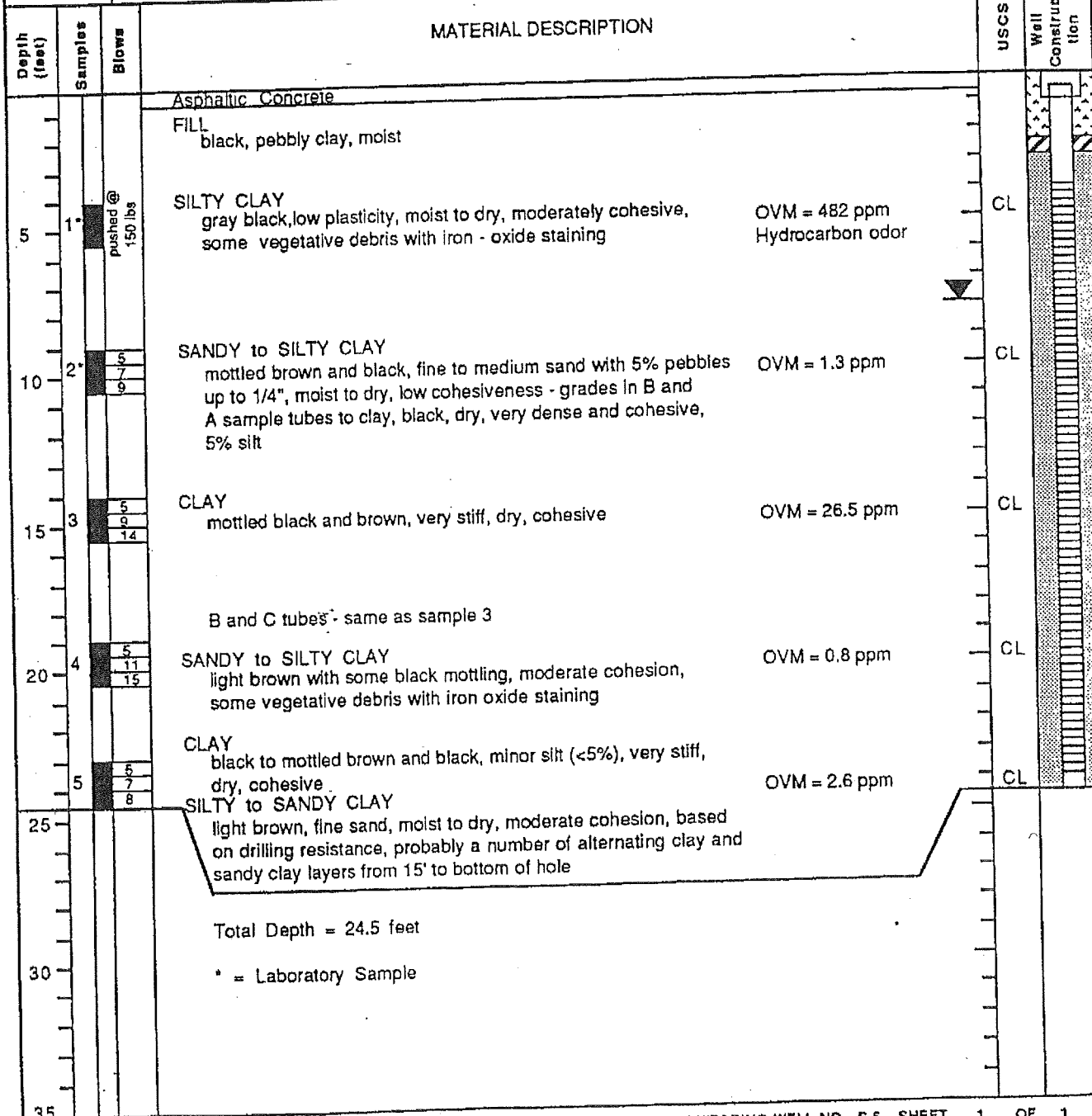
EXPLORATORY BORING

- a. Total depth 20½ ft.
 b. Diameter 12 in.
 Drilling method Hollow-stem auger

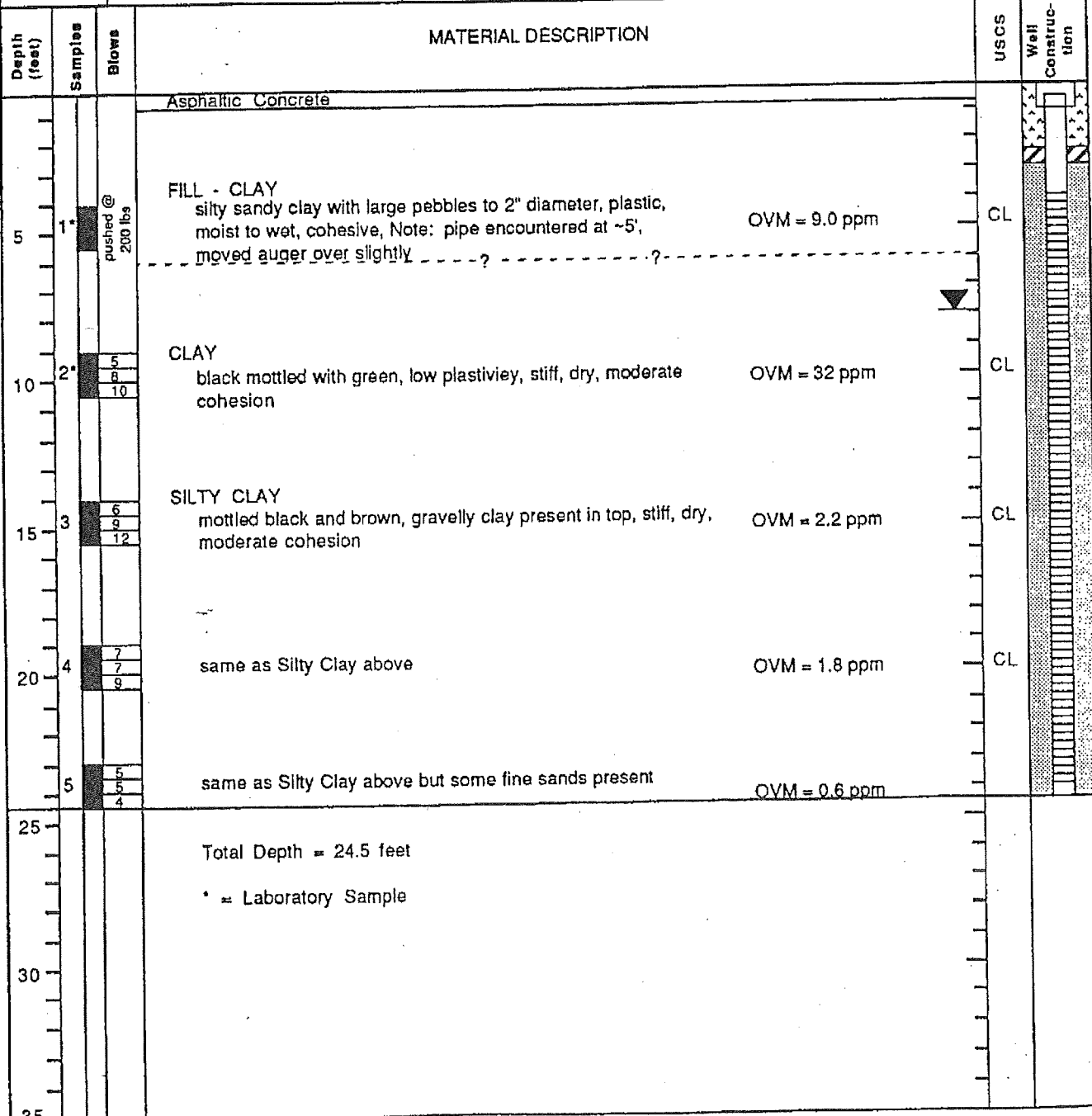
WELL CONSTRUCTION

- c. Casing length 18½ ft.
 Material schedule 40 PVC
 d. Diameter 4 in.
 e. Depth to top perforations 3½ ft.
 f. Perforated length 15 ft.
 Perforated interval from 18½ to 3½ ft.
 Perforation type machined slot
 Perforation size 0.020 inch
 g. Surface seal (1 - 0') 1 ft.
 Seal material concrete
 h. Backfill (1½ - 1') ½ ft.
 Backfill material concrete
 i. Seal (2½ - 1½') 1 ft.
 Seal material Bentonite
 j. Gravel pack (18½ - 2½') 16 ft.
 Pack material 6x12 Monterey Sand
 k. Bottom seal (20½ - 18½') 2 ft.
 Seal material compacted clay

MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-6)			ELEVATION AND DATUM		
DRILLING AGENCY Bay Land Drilling	DRILLER TomMack		DATE STARTED 11/3/88		DATE FINISHED
DRILLING EQUIPMENT CME - 55			COMPLETION DEPTH 24.5'	SAMPLER Modified California	
DRILLING METHOD 8" Hollow stem auger		DRILL BIT CME Carbide	NO. OF SAMPLES	DIST. 5	UNDIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC		FROM 24.0 TO 0.5 FT.	WATER LEVEL	FIRST 8'	COMPL. 24 HRS.
TYPE OF PERFORATION 0.02"		FROM 24.0 TO 4.0 FT.	LOGGED BY: R. Siegel		CHECKED BY: M. Bankowski
SIZE AND TYPE OF PACK 2/12 Monterey Sand		FROM 24.5 TO 3.0 FT.			
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.			
	NO. 2 Cement grout	FROM 2.5 TO 0.5 FT.			



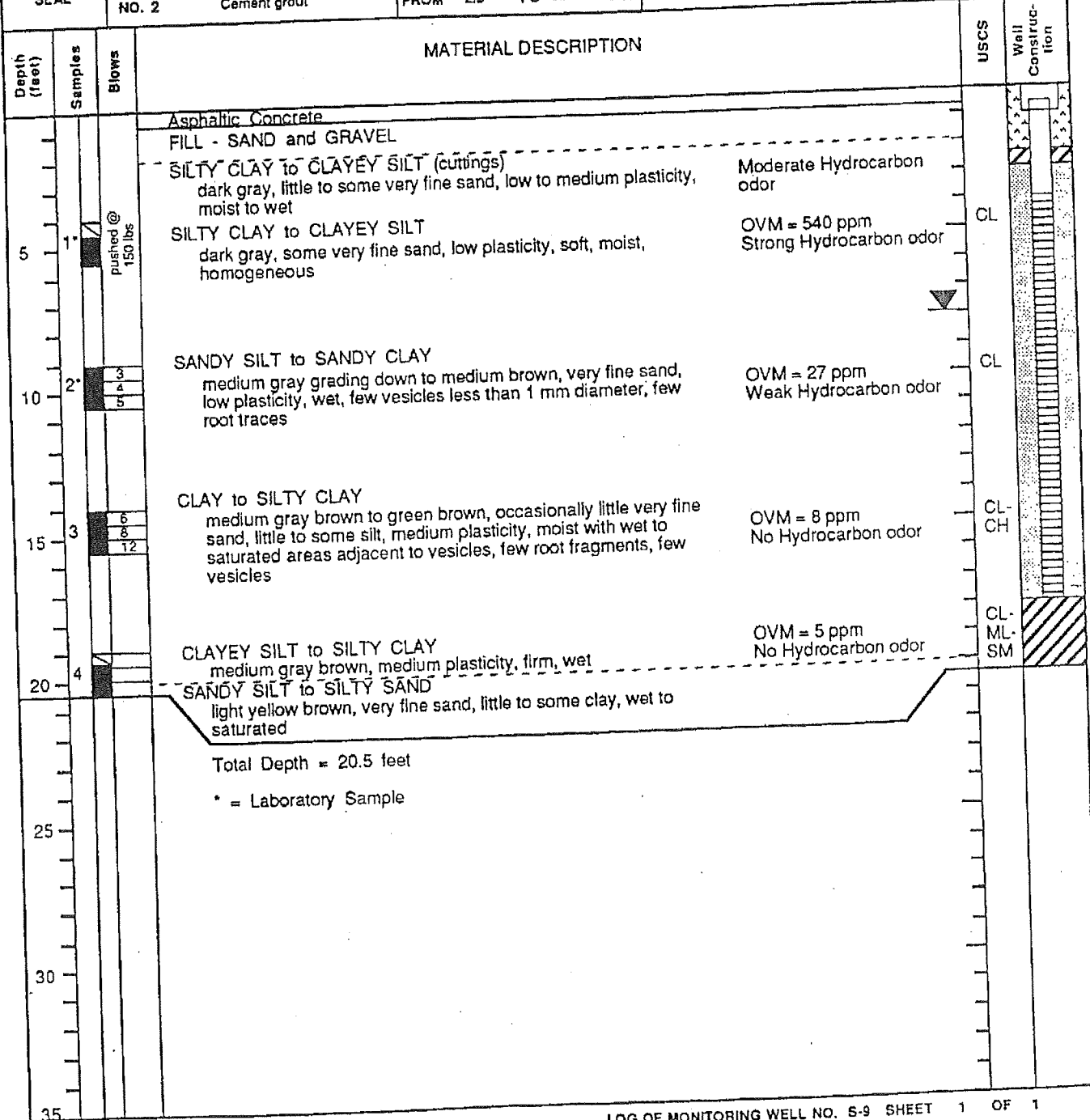
MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-7)		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER Tom/Mack	DATE STARTED 11/3/68 DATE FINISHED	
DRILLING EQUIPMENT CME-55		COMPLETION DEPTH 24.5'	SAMPLER Modified California
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES 5	DIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 24.0 TO 0.5 FT.	WATER LEVEL FIRST -6'	UNDIST. 5
TYPE OF PERFORATION 0.02"	FROM 24.0 TO 4.0 FT.	LOGGED BY: R. Siegel	
SIZE AND TYPE OF PACK 2 1/2 Monterey Sand	FROM 24.5 TO 3.0 FT.	CHECKED BY: M. Bonkowski	
TYPE OF SEAL	NO. 1 Bentonite	FROM 3 TO 2.5 FT.	
	NO. 2 Cement grout	FROM 2.5 TO 0.5 FT.	



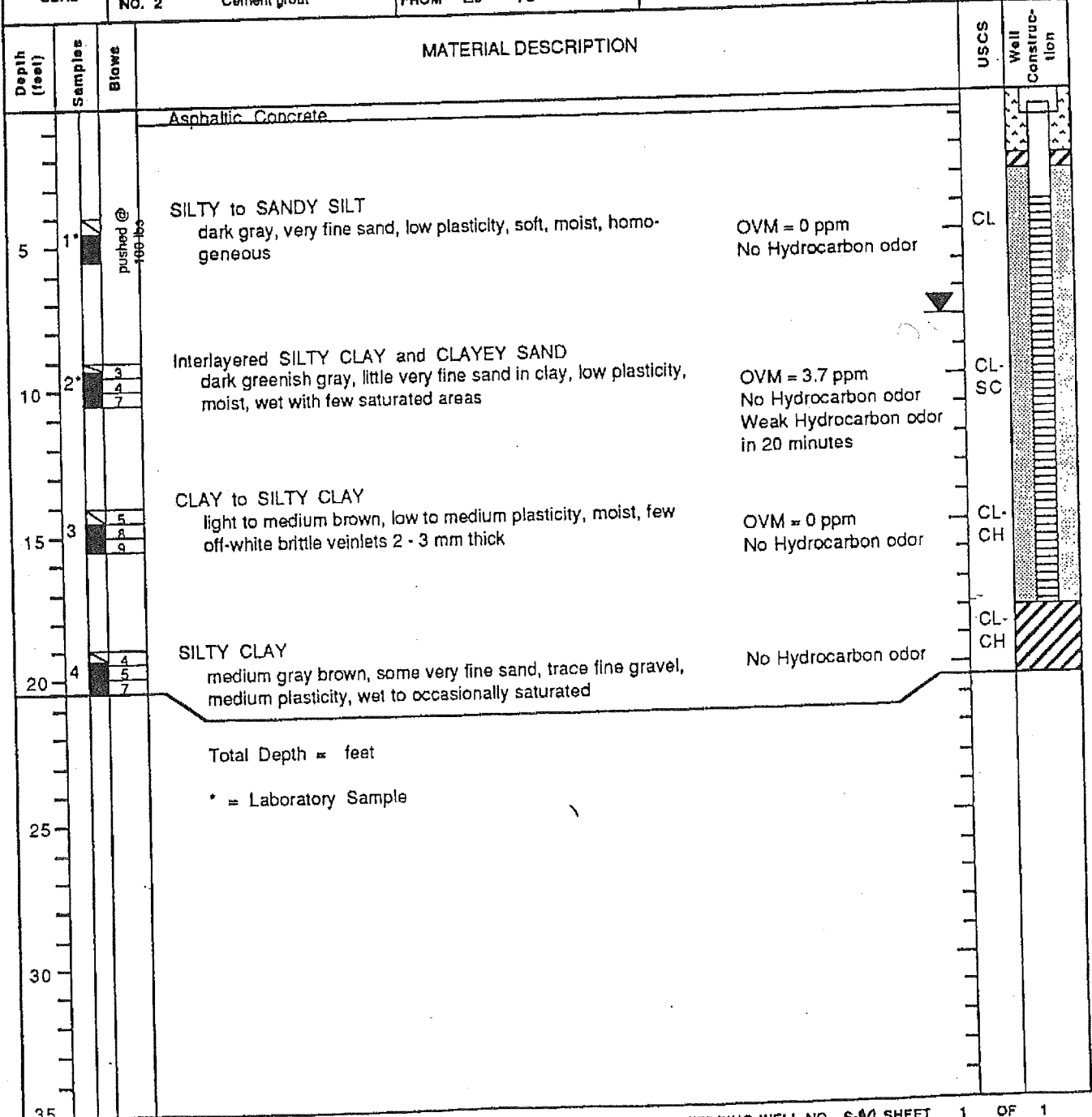
MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-8)			ELEVATION AND DATUM		
DRILLING AGENCY Bay Land Drilling		DRILLER Tom/Mack	DATE STARTED 11/3/88		DATE FINISHED
DRILLING EQUIPMENT CME - 55			COMPLETION DEPTH 24.5'	SAMPLER Modified California	
DRILLING METHOD 8" Hollow stem auger		DRILL BIT CME Carbide	NO. OF SAMPLES 5	DIST. 5	UNDIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC		FROM 24.0 TO 0.5 FT.	WATER LEVEL FIRST -8'	COMPL. 24 HRS.	
TYPE OF PERFORATION 0.02"		FROM 24.0 TO 4.0 FT.	LOGGED BY: R. Siegel		CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 2/12 Monterey Sand		FROM 24.5 TO 3.0 FT.			
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.			
	NO. 2 Cement grout	FROM 2.5 TO 0.5 FT.			

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			Asphaltic Concrete		
5	1*	5 7 9	FILL - SILTY CLAY some pebbles to 1", low plasticity, moist, low cohesion OVM = 43 ppm Very strong Hydrocarbon odor	CL	
10	2*	5 7 14	SILTY to SANDY CLAY mottled black and brown, fine to medium sand, a few pebbles to 1/4" diameter, poorly sorted, dry to moist OVM = 1.4 ppm	CL	
15	3*	5 9 14	as above, poor recovery, resampled from same depth gravels and pebbles present in clay, pebbles to 1/8", increased moisture, decreased cohesion OVM = 453 ppm	CL	
20	4*	9 9 7	as above then goes to (A tube), Silty to Sandy Clay, light brown, fine sand, moist to dry, moderate cohesion OVM = 4.8 ppm	CL	
	5*	5 6 10	No recovery after 2 attempts		
25			Total Depth = 24.5 feet * = Laboratory Sample		
30					
35					

MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-9)		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER Tom/Mack	DATE STARTED 11/4/88	DATE FINISHED
DRILLING EQUIPMENT CME-55		COMPLETION DEPTH 18'	SAMPLER Modified California
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES 4	DIST. 4
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 18.0 TO 0.5 FT.	WATER LEVEL	FIRST 8' +/-
TYPE OF PERFORATION 0.02"	FROM 17.5 TO 4.0 FT.	LOGGED BY: G. Heyman	CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 2/12 Monterey Sand	FROM 18 TO 3.0 FT.		
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.	
	NO. 2 Cement grout	FROM 2.5 TO surface FT.	



MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-10)		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER Tom/Mack	DATE STARTED 11/4/88	DATE FINISHED
DRILLING EQUIPMENT CME - 55		COMPLETION DEPTH 18'	SAMPLER Modified California
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES	DIST. 4
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 18.0 TO 0.5 FT.	WATER LEVEL	FIRST 8' +/-
TYPE OF PERFORATION 0.02"	FROM 17.5 TO 4.0 FT.	LOGGED BY:	CHECKED BY:
SIZE AND TYPE OF PACK 2/12 Monterey Sand	FROM 18 TO 3.0 FT.	G. Heyman	M. Bonkowski
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.	
	NO. 2 Cement grout	FROM 2.5 TO surface FT.	



MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-11)		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER Tom/Mack	DATE STARTED 11/4/88	DATE FINISHED
DRILLING EQUIPMENT CME - 55		COMPLETION DEPTH 24.5'	SAMPLER Modified California
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide	NO. OF SAMPLES 5	DIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 24.5 TO 0.5 FT.	WATER LEVEL	FIRST 8'
TYPE OF PERFORATION 0.02"	FROM 24.0 TO 4.0 FT.	LOGGED BY:	CHECKED BY:
SIZE AND TYPE OF PACK 2/12 Monterey Sand	FROM 24.5 TO 3.5 FT.	G. Heyman	M. Bonkowski
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3.5 TO 3.0 FT.	
	NO. 2 Cement grout	FROM 3.0 TO 0.5 FT.	

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			Asphaltic Concrete and base rock		
5	1	pushed @ 175 lbs	SILTY to SANDY CLAY greenish gray, silt and very fine grained sand, content varies vertically, low plasticity, firm, moist, numerous vesicles less than 1 mm diameter	CL	
10	2	4 7 9	SILTY CLAY to CLAYEY SILT dark brown, little to some very fine sand, low plasticity, moist to wet, few vesicles	CL-ML	
15	3	5 9 11	SILTY CLAY greenish brown, little to some very fine sand, medium plasticity, wet with saturated areas, gravel layers 1 - 2" thick from 16 - 18" (driller)	CL	
20	4*	3 4 4	SILTY CLAY with Interbedded CLAYEY SAND to SANDY CLAY Clay is grayish brown, medium plasticity, wet with saturated areas, sand is light yellow brown, very fine grained, loose, wet to saturated, up to 3" thick	CL-SC	
25	5	4 7 8	SANDY CLAY to CLAYEY SAND layers are up to 5" thick, as above	CL	
25			Total Depth = 24.5 feet		
			* = Laboratory Sample		
30					
35					

MONITORING WELL LOCATION 15275 Washington Ave., San Leandro, CA (S-12)			ELEVATION AND DATUM		
DRILLING AGENCY Bay Land Drilling	DRILLER Tom/Mack		DATE STARTED 11/4 DATE FINISHED		
DRILLING EQUIPMENT CME - 55		COMPLETION DEPTH 24.5'		SAMPLER Modified California	
DRILLING METHOD 8" Hollow stem auger	DRILL BIT CME Carbide		NO. OF SAMPLES	DIST. 5	UNDIST. 5
SIZE AND TYPE OF CASING Sch 40 3" PVC	FROM 24.0 TO 0.5 FT.	WATER LEVEL	FIRST 8'	COMPL. 24 HRS.	
TYPE OF PERFORATION 0.02"	FROM 23.5 TO 3.5 FT.	LOGGED BY: G. Heyman		CHECKED BY: M. Bonkowski	
SIZE AND TYPE OF PACK 2/12 Monterey Sand	FROM 24.0 TO 3.0 FT.				
TYPE OF SEAL	NO. 1 1/2" Bentonite Pellets	FROM 3 TO 2.5 FT.			
	NO. 2 Cement grout	FROM 2.5 TO surface FT.			

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			Asphaltic Concrete		
5	1	pushed @ 200 lbs	CLAYEY SAND to SANDY CLAY grading down to SILTY CLAY TO CLAYEY SILT greenish gray at top with gray mottling in middle and bottom of sample, very fine sand, low plasticity, moist, generally homogeneous	CL	
10	2	4 7	SILTY CLAY dark brownish gray, some very fine sand, low plasticity, firm, moist to wet, few beds of clay, sand to 1/4" thick	CL	
15	3	5 8 11	CLAY to SILTY CLAY medium grayish brown, some silt grading to silty clay, medium plasticity, wet homogeneous Driller indicates drilling through a series of 2 - 4" gravel layers from 16 - 19'	CL	
20	4	3 4 5	CLAY to SANDY CLAY medium grayish brown, little to some very fine sand occasionally grading to sandy clay, low to medium plasticity, firm, saturated	CL	
			CLAYEY SAND to SANDY CLAY medium yellow brown, very fine sand, saturated	CL	
			SILTY CLAY to CLAYEY SILT medium yellow brown, up to some very fine sand, low to medium plasticity, saturated	CL	
25			Total Depth = 24.5 feet * = Laboratory Sample		

Field location of boring:				Project No.: 7615		Date: 4/26/89		Boring No: S-13	
				Client: Shell		Location: 15275 Washington Ave/Lewelling		Sheet 1 of 2	
				City: San Leandro		Logged by: DAF		Driller: Bayland	
				Casing installation data:					
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8 inch				Water Level 8.4'		7.3'			
				Time 11:50am					
				Date 4/26		5/10			
				Description					
				PAVEMENT SECTION - 2 feet.					
				CLAY (CL)- dark gray (10YR 4/1); soft; damp; low plasticity; trace gravel; no chemical odor.					
350 150 S&H S-13-5' push				color change to dark olive gray (5Y 3/2); no chemical odor.					
				▼					
50 2 S&H S-13-10'				SILTY SAND (SM)- light olive brown (2.5Y 5/4); loose; damp; 20-30% silt; mottled brown; no chemical odor.					
				CLAY (CL)- dark olive gray (5Y 3/2), medium stiff; damp; low plasticity; trace gravel; rootholes; no chemical odor.					
40 3 S&H S-13-15'				color change to very dark gray (5Y 3/1) mottled; organics present; no chemical odor.					
				▼ becoming saturated at 17.5 feet.					
0 2 S&H S-13-20'				SANDY SILT (ML)- light yellowish brown (2.5Y 6/4); medium stiff; saturated;					
Remarks:									



GeoStrategies Inc.

BORING NO.

S-13

JOB NUMBER
7615

REVIEWED BY RG/CEG
Camp CEG 1262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:				Project No.: 7615		Date: 4/26/89		Boring No: S-13	
				Client: Shell					
				Location: 15275 Washington Ave/Lewelling				Sheet 1 of 2	
				City: San Leandro		Driller: Bayland			
				Logged by: DAF					
				Casing installation data:					
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8 inch				Water Level 8.4'		7.3'			
				Time 11:50am					
				Date 4/26		5/10			
				Description					
				PAVEMENT SECTION - 2 feet.					
				CLAY (CL)- dark gray (10YR 4/1); soft; damp; low plasticity; trace gravel; no chemical odor.					
				color change to dark olive gray (5Y 3/2); no chemical odor.					
				▼					
				SILTY SAND (SM)- light olive brown (2.5Y 5/4); loose; damp; 20-30% silt; mottled brown; no chemical odor.					
				CLAY (CL)- dark olive gray (5Y 3/2), medium stiff; damp; low plasticity; trace gravel; rootholes; no chemical odor.					
				color change to very dark gray (5Y 3/1) mottled; organics present; no chemical odor.					
				▼ becoming saturated at 17.5 feet.					
				SANDY SILT (ML)- light yellowish brown (2.5Y 6/4); medium stiff; saturated;					
Remarks:									



GeoStrategies Inc.

BORING NO.

S-13

JOB NUMBER
7615

REVIEWED BY RG/CEG
Camp CEG 1262

DATE
5/89

REVISED DATE

REVISED DATE

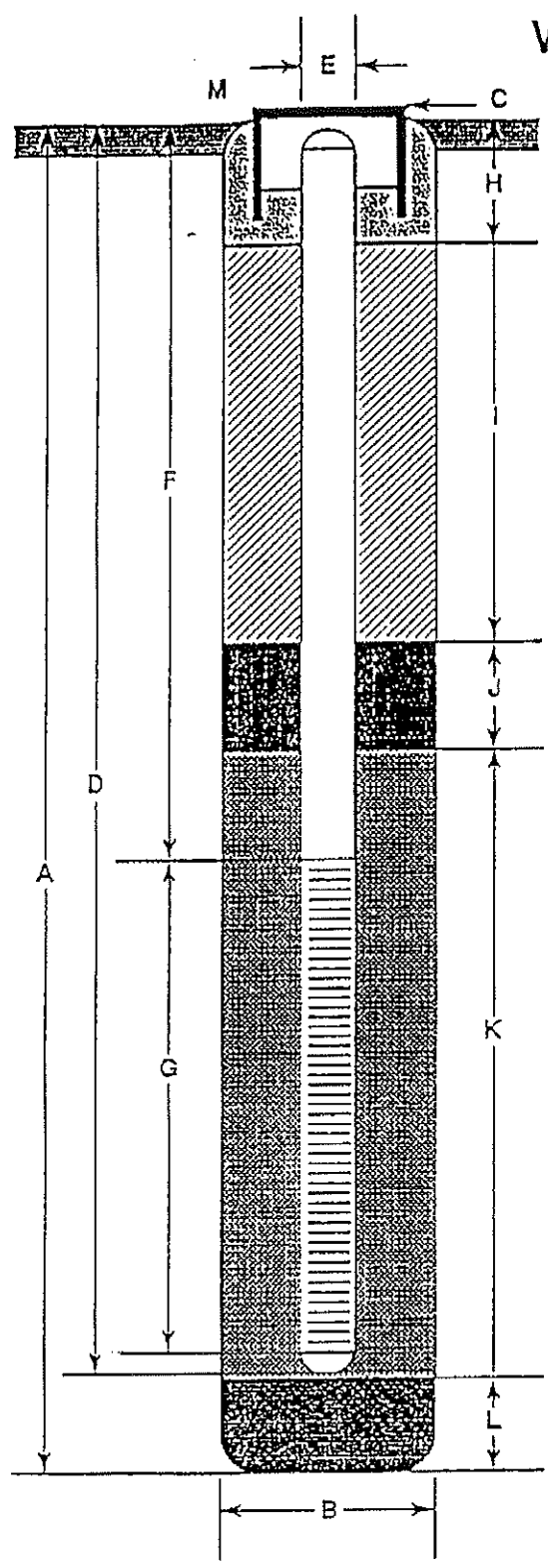
Field location of boring:	Project No.: 7615	Date: 4/26/89	Boring No:
	Client: Shell		S-13
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro	Drilled by: DAF	of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**
Hole diameter: **8 inch**

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Top of Box Elevation:			Datum:		
								Water Level	Time	Date			
	4			21				Description					
				22				15% very fine to fine sand; 10% clay; trace organics; rootholes; mottled brown & black; no chemical odor.					
				23									
25	2	S&H	S-13-	24				SILTY CLAY (CL-ML)- light olive brown (2.5Y 5/4); medium stiff; moist; trace organics; mottled brown & black; no chemical odor.					
	3		25'	25				Bottom of boring 24.0 feet, Sampled to 25.5 feet 4/26/89					
	4												

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 24 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation _____ 20.57 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 23.5 ft.
Material SCH 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 4 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size _____ 0.020
- H Surface Seal _____ 2.5 ft.
Seal Material CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal _____ 0.5 ft.
Seal Material BENTONITE
- K Gravel Pack _____ 21 ft.
Pack Material LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ CHRISTY BOX

Field location of boring:	Project No.: 7615	Date: 4/26/89	Boring No:
	Client: Shell		S-14
	Location: 15275 Washington Ave/Lewelling		Sheet 1
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**
Hole diameter: **8 inch**

Top of Box Elevation:	Datum:
Water Level: 9'	
Time: 10:00am	
Date: 4/26/89	

PTD (ppm)	Flow. It. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				1				PAVEMENT SECTION - 2 feet.
				2				
				3				SILTY CLAY (CL-ML)- dark gray (2.5Y N4); soft; damp.
500	150	S&H push	S-14-5'	4				becoming firm at 5 feet; with slight odor.
				5				
				6				
				7				SILTY SAND (SM)- olive (5Y 4/3); loose; damp; 30% medium sand; 20% very fine to fine sand; trace clay; no chemical odor, comment: drill cuttings.
				8				
50	2	S&H	S-14-	9				CLAY (CL)- dark gray (2.5Y N4); stiff; damp; low plasticity; no chemical odor.
	3		10'	10				
	4			11				CLAY WITH SAND (CL)- light yellowish brown (2.5Y 6/4); medium stiff; damp; 10% very fine to fine sand; 5-10% silt; trace caliche nodules; mottled; no chemical odor.
				12				
				13				
0	2	S&H	S-14-	14				CLAY (CL)- dark gray (2.5Y N4); stiff; damp; low plasticity; pockets of silt; trace black & brown organics; no chemical odor.
	6		15'	15				color change to grayish brown (2.5Y 5/2) at 15 feet.
	7			16				
				17				
				18				
				19				becoming saturated at 19 feet.
50	2	S&H	S-14-	20				
	6		20'					

Remarks:

Field location of boring:	Project No.: 7615	Date: 4/26/89	Boring No:
	Client: Shell		S-14
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**

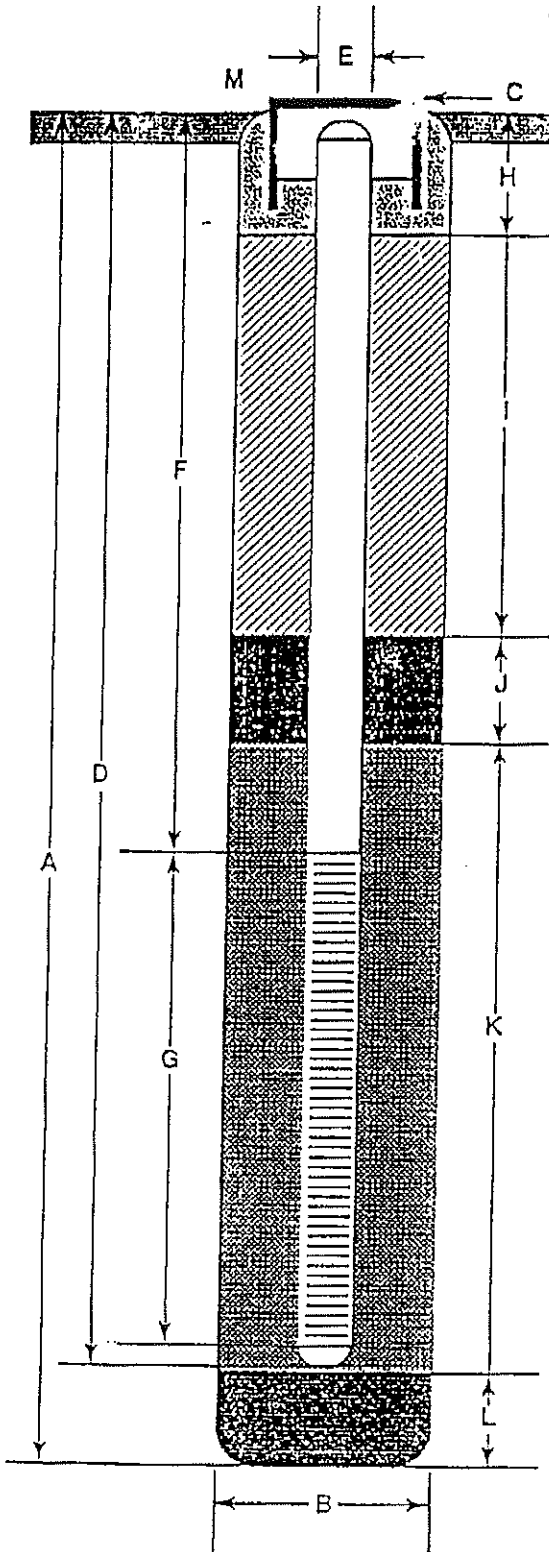
Hole diameter: **8 inch**

Top of Box Elevation: _____ Datum: _____

PID (ppm)	Blows ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			Description
	7			21							SANDY SILT (ML)- light yellowish brown (2.5Y 6/4); medium stiff; saturated; 30% very fine to fine sand; 5-10% clay; trace caliche nodules; mottled brown & black; no chemical odor.
				22							
				23							
				24							
	2	SPT		25							CLAY (CL)- grayish brown (2.5Y 5/2); medium stiff; damp; low plasticity; trace caliche nodules; no chemical odor
	2										
	4										
Bottom of boring 24.0 feet, sampled to 25.5 feet											
4/26/89											

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 24 ft.
- B Diameter of Boring 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation 20.44 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 23.5 ft.
Material SCH 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 4 ft.
- G Perforated Length 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size 0.020
- H Surface Seal 2.5 ft.
Seal Material CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal 0.5 ft.
Seal Material BENTONITE
- K Gravel Pack 21 ft.
Pack Material LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M CHRISTY BOX



GeoStrategies Inc.

Well Construction Detail
Former Shell Service Station
15275 Washington Ave.
San Leandro

WELL NO.

S-14

JOB NUMBER
7615

REVIEWED BY REG/EG
Chp 06/12/89

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:				Project No.: 7615		Date: 4/26/89		Boring No:	
				Client: Shell				S-15	
				Location: 15275 Washington Ave/Lewelling				Sheet 1	
				City: San Leandro				of 2	
				Logged by: DAF		Driller: Bayland			
				Casing installation data:					
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:			
Hole diameter: 8 inch				Water Level: 8.3'					
				Time: 2:25pm					
				Date: 4/26/89					
				Description					
				PAVEMENT SECTION - 2.5 feet.					
				CLAY (CL) - very dark grayish brown (2.5Y 3/2); medium stiff; damp; low plasticity; trace gravel.					
55 150 S&H S-15-5' push				SILTY CLAY (CL-ML) - olive (5Y 4/3); soft; damp; low plasticity; mottled brown.					
				SILTY SAND (SM) - olive brown (2.5Y 4/4); loose; moist; poorly graded; trace clay.					
Driller notes change @ 7'									
				CLAY (CL) - very dark gray (5Y 3/1); stiff; damp; low plasticity; trace gravel; mottled brown; rootholes.					
35 2 S&H S-15-10'				becoming soft; 5% silt; trace caliche nodules at 14 feet.					
2 4				CLAY (CL) - olive gray (5Y 4/2); stiff; damp; low plasticity; mottled; trace caliche nodules.					
4 8				becoming saturated at 18.5 feet.					
				SILTY CLAY (CL-ML) - light olive brown (2.5Y 5/4); medium stiff; saturated; trace organics; trace caliche nodules.					
NM 3 SPT									
2									
Remarks:									



GeoStrategies Inc.

BORING NO.

S-15

JOB NUMBER
7615

REVIEWED BY: RJC/CEG
CWP/CEG/262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:								Project No.: 7615		Date: 4/26/89		Boring No:									
								Client: Shell		Location: 15275 Washington Ave/Lewelling		City: San Leandro		Logged by: DAF		Driller: Bayland		S-15 Sheet 2 of 2			
Drilling method: Hollow Stem Auger								Casing insulation data:				Top of Box Elevation:				Datum:					
Hole diameter: 8 inch								Water Level				Time				Date					
PID (ppm)		Blows/ft. or Pressure (psf)		Type of Sample		Sample Number		Depth (ft.)		Sample		Well Casing		Soil Group Symbol (USCS)		Description					
		4						21													
								22													
								23								CLAY (CL) -very dark gray (5Y 3/1); medium stiff; damp; low plasticity.					
								24													
NM		1		SPT				25								SILTY CLAY (CL-ML) - light olive brown (2.5Y 5/4); medium stiff; damp; some sandy lenses.					
		3														Bottom of boring 24.0 feet, Sampled to 25.5 feet 4/26/89					
		5																			
Remarks:																					



GeoStrategies Inc.

BORING NO.

S-15

JOB NUMBER
7615

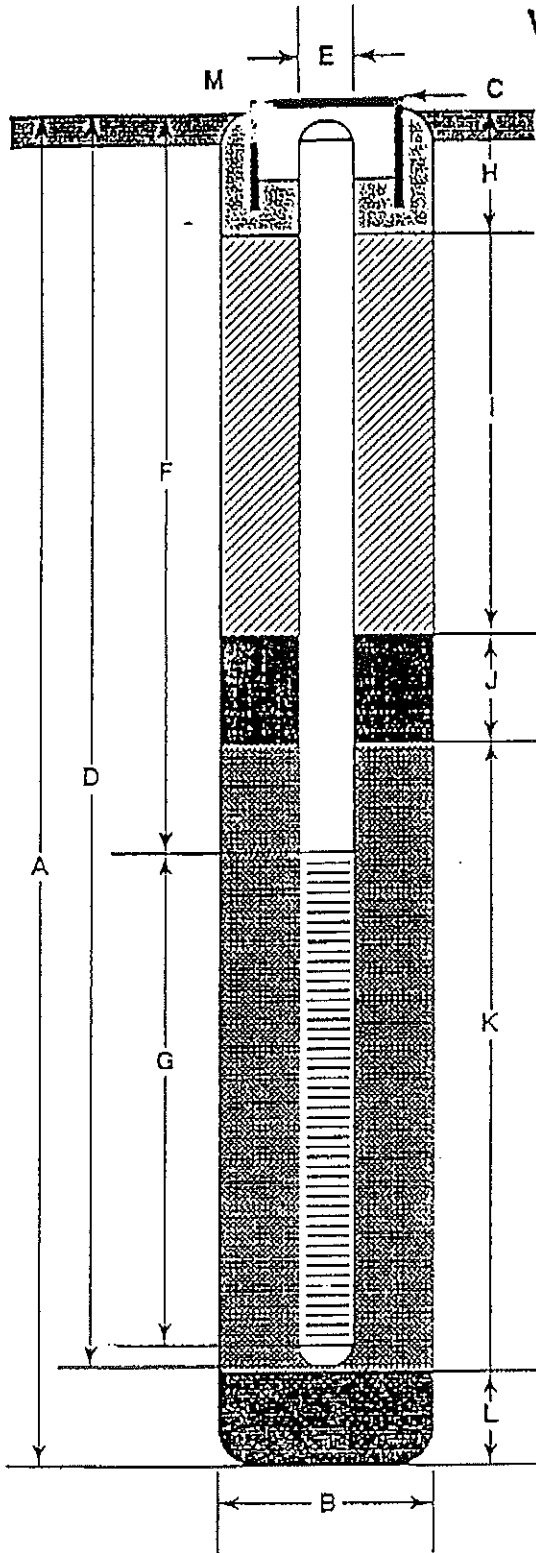
REVIEWED BY RG/CEG

DATE
5/89

REVISED DATE

REVISED DATE

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 24 ft.
- B Diameter of Boring 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation 22.22 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 23.5 ft.
Material SCH 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 4 ft.
- G Perforated Length 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size 0.020
- H Surface Seal 2.5 ft.
Seal Material CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal 0.5 ft.
Seal Material BENTONITE
- K Gravel Pack 21 ft.
Pack Material LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M CHRISTY BOX



GeoStrategies Inc.

Well Construction Detail
Former Shell Service Station
15275 Washington Ave.
San Leandro

WELL NO.

S-15

JOB NUMBER
7615

REVIEWED BY RG/CEG
UMP CEG 1262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:	Project No.: 7615	Date: 4/25/89	Boring No:
	Client: Shell		S-16
	Location: 15275 Washington Ave/Lewelling		Sheet 1
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**

Hole diameter: **8 inch**

Top of Box Elevation: _____ Datum: _____

PID (ppm)	Blow-ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								8.5'		
				1				Time: 10:30am		PAVEMENT SECTION - 2 feet.
				2				Date: 4/25/89		
				3						CLAY WITH GRAVEL (CL) -dark grayish brown (10 YR 4/2); medium stiff; damp; 5% subrounded pebbles; slight mottling.
560	150	S&H push	S-16-5'	4						CLAY (CL) -dark grayish brown (10YR 4/2); medium stiff; moist; 5% silt; slight mottling; strong chemical odor.
				5						
				6						
				7						
				8						
0	3	S&H	S-16-	9						CLAY (CL) -very dark grayish brown (10YR 3/2); stiff; damp; increasing silt; trace sand; root structures.
	4		10'	10						
	6			11						
				12						
				13						
0	3	S&H	S-16-	14						CLAY (CL) -grayish brown (10YR 5/2); stiff; damp; trace organics; mottled; root structures.
	6		15'	15						
	7			16						
				17						
				18						
0	3	S&H	S-16-	19						SANDY CLAY (CL) -pale brown (10YR 6/3); stiff; damp.
	4		20'	20						

Remarks:

Field location of boring:	Project No.: 7615	Date: 4/25/89	Boring No:
	Client: Shell		S-16
	Location: 15275 Washington Ave/Lewelling		Sheet 2
	City: San Leandro		of 2
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: **Hollow Stem Auger**

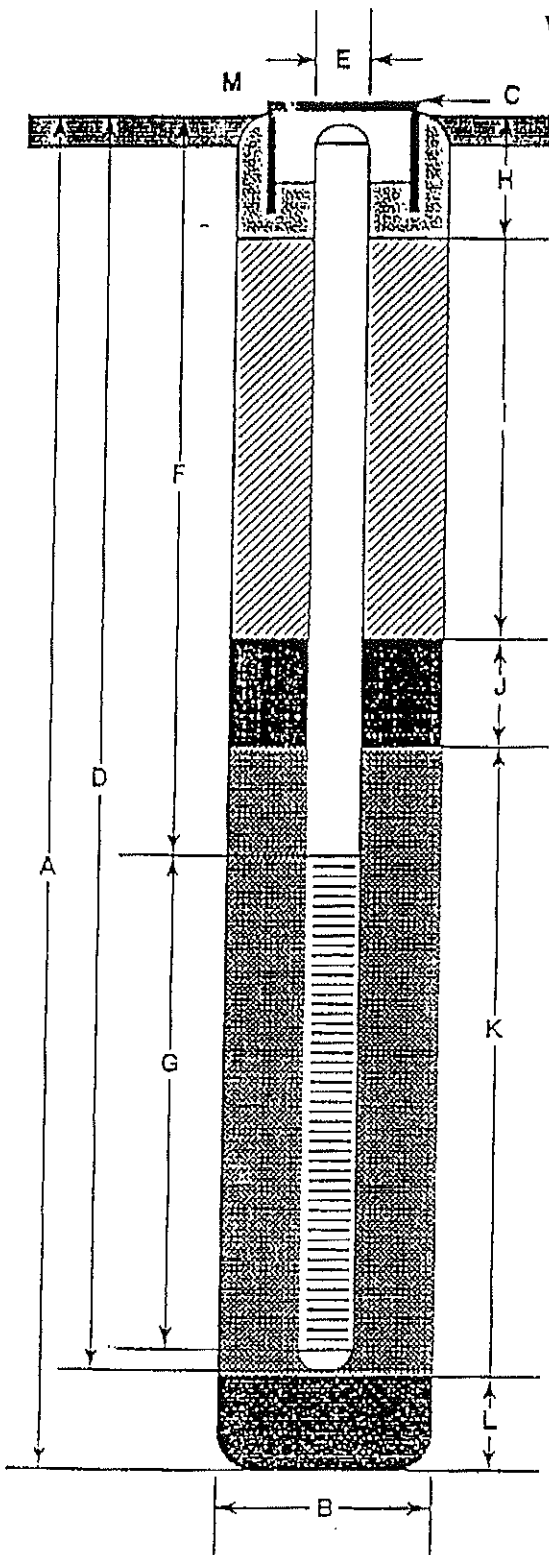
Hole diameter: **8 inch**

Top of Box Elevation: _____ Datum: _____

SPT (blows)	Blow ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description
								Time	Date			
	5			21			SC					
				22								
				23								
				24								
0	1	S&H	S-16-	25			CL					
	1		25'									
	1											
								Bottom of boring 24.0 feet, sampled to 25.5 feet. 4/25/89				

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Casing _____ 24 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method HOLLOW STEM AUGER
- C Top of Box Elevation _____ 21.82 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 23.5 ft.
Material _____ SCH 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 4 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from 4 to 24 ft.
Perforation Type FACTORY SLOTTED
Perforation Size _____ 0.020
- H Surface Seal _____ 2.5 ft.
Seal Material _____ CONCRETE
- I Backfill _____ ft.
Backfill Material _____
- J Seal _____ 0.5 ft.
Seal Material _____ BENTONITE
- K Gravel Pack _____ 21 ft.
Pack Material _____ LONESTAR 2/12 & #3
- L Bottom Seal _____ ft.
Seal Material _____
- M _____ CHRISTY BOX



GeoStrategies Inc.

Well Construction Detail

WELL NO.

Former Shell Service Station
15275 Washington Ave.
San Leandro

S-16

JOB NUMBER
7615

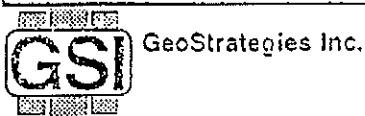
REVIEWED BY RG/CEG
CWP cell 1262

DATE
5/89

REVISED DATE

REVISED DATE

Field location of boring:					Project No.: 7615		Date: 4/25/89	Boring No:
					Client: Shell		S-17	
					Location: 15275 Washington Ave/Lewelling			
					City: San Leandro		Sheet 1 of 2	
					Logged by: DAF		Driller: Bayland	
					Casing installation data:			
Drilling method: Hollow Stem Auger					Top of Box Elevation:		Datum:	
Hole diameter: 8 inch					Water Level 7.5'			
					Time 12.50 pm			
					Date 4/25/89			
PID (ppm)	Blow Count or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				1				PAVEMENT SECTION - 2 feet.
				2				
				3				SILTY SAND (SM) -very dark gray (5Y 3/1); loose; dry; >50% very fine to fine sand; trace clay.
12.5	150	S&H push	S-17-5'	4				
				5				SILTY CLAY (CL-ML) -dark greenish gray (5GY 4/1); medium stiff; damp; 5% very fine to fine sand; slight mottling - olive green & gray; moderate chemical odor.
				6				
				7				
				8				SANDY SILT (ML) -dark greenish gray (5GY 4/1); loose; saturated; 40% fine to very fine sand; 10% clay; weak chemical odor.
0	3	S&H	S-17-10'	9				
	4			10				SILTY CLAY WITH SAND (CL-ML) -dark gray (5Y 4/1), stiff; damp; 15-20% very fine to fine sand; trace caliche nodules; trace organics; mottled; rootholes.
	7			11				
				12				
				13				
				14				gravels up to 1 cm at 14 feet.
NM	2	SPT		15				CLAY (CL) -grayish brown (5Y 5/2); stiff; damp; trace caliche nodules up to 1 cm; mottled; occasional sand lens.
	4			16				
	7			17				
				18				SANDY SILT (ML) -light yellowish brown (10 YR 6/4); loose; saturated; 30% very fine to fine sand; trace clay; trace
				19				caliche nodules; trace medium grain sized sand.
NM	2	SPT		20				
	2							
Remarks:								



BORING NO.

S-17

Field location of boring:	Project No.: 7615	Date: 4/25/89	Boring No: S-17
	Client: Shell		
	Location: 15275 Washington Ave/Lwelling		
	City: San Leandro	Sheet 2 of 2	
	Logged by: DAF	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8 inch		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			Description
								Time	Date		
	4			21							increasing clay at 20.5 feet.
				22							
				23							
NM	NM	SPT		24							SILTY CLAY (CL-ML) -olive (5Y 5/3); firm; damp; 10% very fine to fine sand; trace caliche nodules; trace medium to coarse grain sized sand; trace organics; trace saturated silt pockets.
				25							Bottom of boring 24.0 feet. Sampled to 25.5 feet. 4/25/89

Remarks:

Field location of boring: (See Plate 2)	Project No.: 7615	Date: 10/27/89	Boring No:
	Client: Shell Oil Company		SR-1
	Location: 15275 Washington Avenue		Sheet 1
	City: San Leandro, California		of 3
	Logged by: M.J.J.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow-Stem Auger	Pilot Boring
Hole diameter: 8-inches	Top of Box Elevation: Datum:

PO (ft)	Blowft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Date	Description
								12.5	10.9		
				1							PAVEMENT SECTION - 4 inches
				2							FILL - Gravel (GW) - dark brown (10YR 3/3), damp, very loose.
				3							FILL - Clay with Silt (CL) - black (5Y 2.5/1), damp, soft, high plasticity; < 5% coarse sand; strong chemical odor.
				4							
231	2			5							
	3	S&H	SR1-5								
	4			6							
	3			7							
243	4	S&H	SR1-6.5								
	5			8							
	1			9							
296	2	S&H	SR1-8								
	3			10							
	2			11							
	4	S&H		12							
	6		SR1-11.5	13							
				14							
	2			15							
4.3	4	S&H	SR1-15	16							
	8			17							
				18							
				19							

Remarks:

Field location of boring: (See Plate 2)	Project No.: 7615	Date: 10/27/89	Boring No:
	Client: Shell Oil Company		SR-1
	Location: 15275 Washington Avenue		
	City: San Leandro, California		Sheet 2
	Logged by: M.J.J.	Driller: Bayland	of 3

Drilling method: Hollow-Stem Auger	Pilot Boring		
Hole diameter: 8-inches	Top of Box Elevation:	Datum:	

PO (ppm)	Blowft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	2			20				
80	4	S&H	SR1-20	20				
	6			21				CLAYEY SILT (ML-CL) - light olive brown (2.5Y 5/4), saturated, medium plasticity; 30% clay; 5% fine to medium sand; no chemical odor.
				22				
				23				
				24				CLAY with SAND (CL) - olive gray (5Y 4/2), saturated, stiff, high plasticity; 20% very fine to fine sand; no chemical odor.
66	3	S&H	SR1-30	25				
	6			26				SILT with SAND (ML) - light olive brown (2.5Y 5/4), saturated, stiff; 15% fine to medium sand; 20-30% clay; no chemical odor.
				27				
				28				
				29				SAND with SILT (SP-SM) - light olive brown (5Y 4/2), fine sand, saturated, medium dense; well sorted; 10% silt; trace clay; laminae of silt 0.25 inches thick in shoe; iron oxide staining; no chemical odor.
10	3	S&H	SR1-30	30				
	8			31				
	10			32				
				33				
				34				SILTY SAND (SM) - light olive brown (5Y 4/2), saturated, dense; very fine to medium sand; 15% silt; trace clay; no chemical odor.
34	5	S&H	SR1-35	35				
	7			36				
	18			37				
				38				
				39				SAND (SP) - dark grayish brown (2.5Y 3/2), saturated, dense, very fine to medium sand; interbeds of fine

Remarks:



GeoStrategies Inc.

Log of Boring

BORING NO.

SR-1

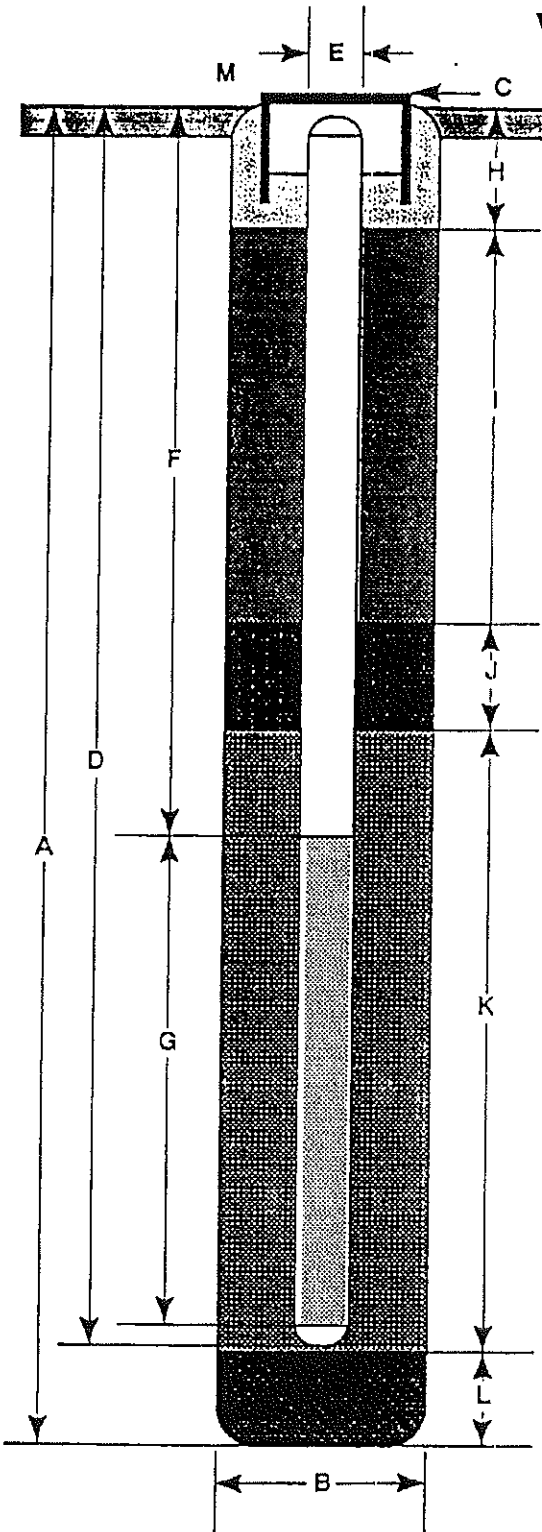
Field location of boring: (See Plate 2)	Project No.: 7615	Date: 10/27/89	Boring No:
	Client: Shell Oil Company		SR-1
	Location: 15275 Washington Avenue		Sheet 3
	City: San Leandro, California		of 3
	Logged by: M.J.J.	Drill: Bayland	

Drilling method: Hollow-Stem Auger	Casing installation data: Pilot Boring		
Hole diameter: 8-inches	Top of Box Elevation:	Datum:	

PID (feet)	Blowcnt. or Pressure (pcf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description	
								Time	Date				
	9												
8.2	13	S&H	SR1-40	40									silty sand 0.5 to 3.0 inches thick; no chemical odor.
	17												Bottom of boring at 40.5 feet.
													Bottom of sample at 40.5 feet.
													10/27/89
				41									
				42									
				43									
				44									
				45									
				46									
				47									
				48									
				49									
				50									
				51									
				52									
				53									
				54									
				55									
				56									
				57									
				58									
				59									

Remarks: Boring caved to 30 feet, Bentonite from 19 to 30 feet.

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 40.5 ft.
- B Diameter of Boring _____ 20 in.
Drilling Method _____ Bucket Auger
- C Top of Box Elevation _____ ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 21 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 6 in.
- F Depth to Top Perforations _____ 6.5 ft.
- G Perforated Length _____ 15 ft.
Perforated Interval from _____ 6.5 to _____ 21.5 ft.
Perforation Type _____ Machine Slot
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.5 to _____ 1.0 ft.
Seal Material _____ concrete
- I Backfill from _____ 1.0 to _____ 4.5 ft.
Backfill Material _____ cement
- J Seal from _____ 4.5 to _____ 5.5 ft.
Seal Material _____ Bentonite
- K Gravel Pack from _____ 5.5 to _____ 21.5 ft.
Pack Material _____ 2/12 Lonestar sand
- L Bottom Seal _____ 21.5-30 ft.
Seal Material _____ Bentonite
- M _____ Christy Box

Note: 30 to 40.5 Native Material (slough)



GeoStrategies Inc.

Well Construction Detail

WELL NO.

SR-1

JOB NUMBER
7615

REVIEWED BY RG/CEG
CWP c. 05.12.02

DATE
10/89

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)	Project No.: 761502	Date: 05/16/91	Boring No:
	Client: Shell Oil Company	S-18	
	Location: 15275 Washington	Sheet 1	
	City: San Leandro, California	of 2	
	Logged by: E.C.F.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow Stem Auger	(See Well Construction Detail)
Hole diameter: 8-Inches	Top of Box Elevation: Datum:

PID (ppm)	Blows/ft. * or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Time	Date	Description
								7.5'	7.6'			
				0								PAVEMENT SECTION - 0.33 feet
				1								SAND (SP) - yellowish brown (10YR 5/4), medium dense, damp; 80% coarse to medium sand; 15% gravel; 5% fines (FILL).
				2								
				3								SILT with SAND (ML) - very dark gray (7.5YR N3/), stiff, damp; 80% silt; 20% very fine sand (ALLUVIUM).
				4								
0	450	S&H		5								
	450		S18-4.5	5								
	450			6								
				7								Soft drilling at 7.0 feet.
0	4	S&H		8								SILTY SAND (SM) - dark grayish brown (10YR 4/2), loose, 70% sand; 30% silt.
			S18-8	8								
				9								Increasing moisture and silt content with depth.
0	6	S&H		10								
			S18-10	10								
				11								
				12								
				13								
				14								
0	16	S&H		15								CLAY (CL) - gray brown (2.5Y 5/2), stiff, moist; trace fine sand with rootholes and vertical dark stains.
			S18-15	15								
				16								
				17								
				18								
				19								

Remarks: * Converted to equivalent Standard Penetration blows/ft.

Log of Boring

BORING NO. S-18

GSI GeoStrategies Inc.

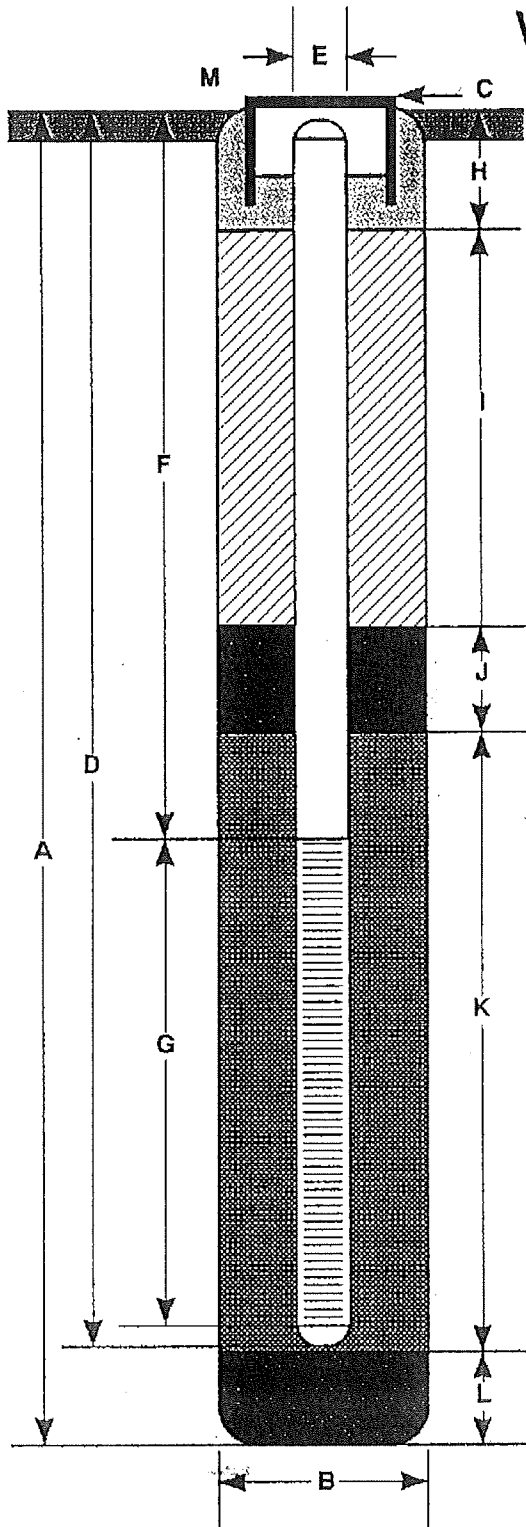
Field location of boring: (See Plate 2)	Project No.: 761502	Date: 05/16/91	Boring No:
	Client: Shell Oil Company		S-18
	Location: 15275 Washington		Sheet 2
	City: San Leandro, California		of 2
	Logged by: E.C.F.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8-Inches		

PID (ppm)	Blower/L. * or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			Description
								Time			
								Date			
	12	S&H		20							
			S18-20.5	21							COLOR CHANGE to light yellow brown (2.5YR 6/4), stiff, damp; 80% clay; 20% coarse sand.
				22							
				23							Bottom of boring at 19.0 feet.
				24							Bottom of sample at 20.5 feet.
				25							
				26							
				27							
				28							
				29							
				30							
				31							
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 19.0 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Box Elevation _____ ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 18.0 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 4 ft.
- G Perforated Length 12 ft.
Perforated Interval from 4 to 18 ft.
Perforation Type Machine Slotted
Perforation Size 0.02 in.
- H Surface Seal from 0 to 1.5 ft.
Seal Material Concrete
- I Backfill from 1.5 to 2 ft.
Backfill Material Concrete
- J Seal from 2 to 3 ft.
Seal Material Bentonite
- K Gravel Pack from 3 to 18 ft.
Pack Material 2/12 Lonestar Sand
- L Bottom Seal 1 ft.
Seal Material Bentonite
- M Underground vault with cover, cap and lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-18

JOB NUMBER
761502

REVIEWED BY RQ/CEG
DHP

DATE
5/91

REVISED DATE

REVISED DATE



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC	BORING/WELL NAME	S-19
JOB/SITE NAME	15276SNL	DRILLING STARTED	31-Jul-98
LOCATION	15275 Washington Avenue, San Leandro	DRILLING COMPLETED	31-Jul-98
PROJECT NUMBER	240-0933	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	8"	SCREENED INTERVAL	4 to 21 ft bgs
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	6.30 ft (31-Jul-98)
REVIEWED BY	D. Lunquist, PE	DEPTH TO WATER (Static)	
REMARKS	94 ft north of well S-9.		

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					0.5			ASPHALT FILL; brown; loose; moist; 15% clay, 25% silt, 30% sand, 30% gravel; low plasticity; high estimated permeability.	0.5	<p>Water encountered @ 6.3 ft.</p>
998					2.5	MH	Clayey SILT ; (MH); grey to black; medium stiff; moist; 40% clay, 50% silt, 10% sand; medium plasticity; low estimated permeability.	2.5		
					5.0	CL	Silty CLAY ; (CL); grey to black; stiff; moist; 55% clay, 45% silt; medium to high plasticity; low estimated permeability. 7/31/98	5.0		
730					10.0	CL	brown; very stiff; 55% clay, 35% silt, 10% sand; high plasticity; very low estimated permeability.	10.0		
639					15.0	CL	Silty, Gravelly CLAY ; (CL); brown; very stiff; wet; 45% clay, 30% silt, 10% sand, 15% gravel; high plasticity; very low estimated permeability.	15.0		
231					20.0	CL	Silty, Sandy CLAY ; (CL); brown; stiff; moist; 40% clay, 30% silt, 30% sand; high plasticity; very low estimated permeability.	20.0		
					21.1				21.1	Bottom of Boring @ 21.1 ft

WELL LOG (PID) G:\SNL15275\GINTWELLS-18.GPJ DEFAULT.GDT 12/2/98



BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-1

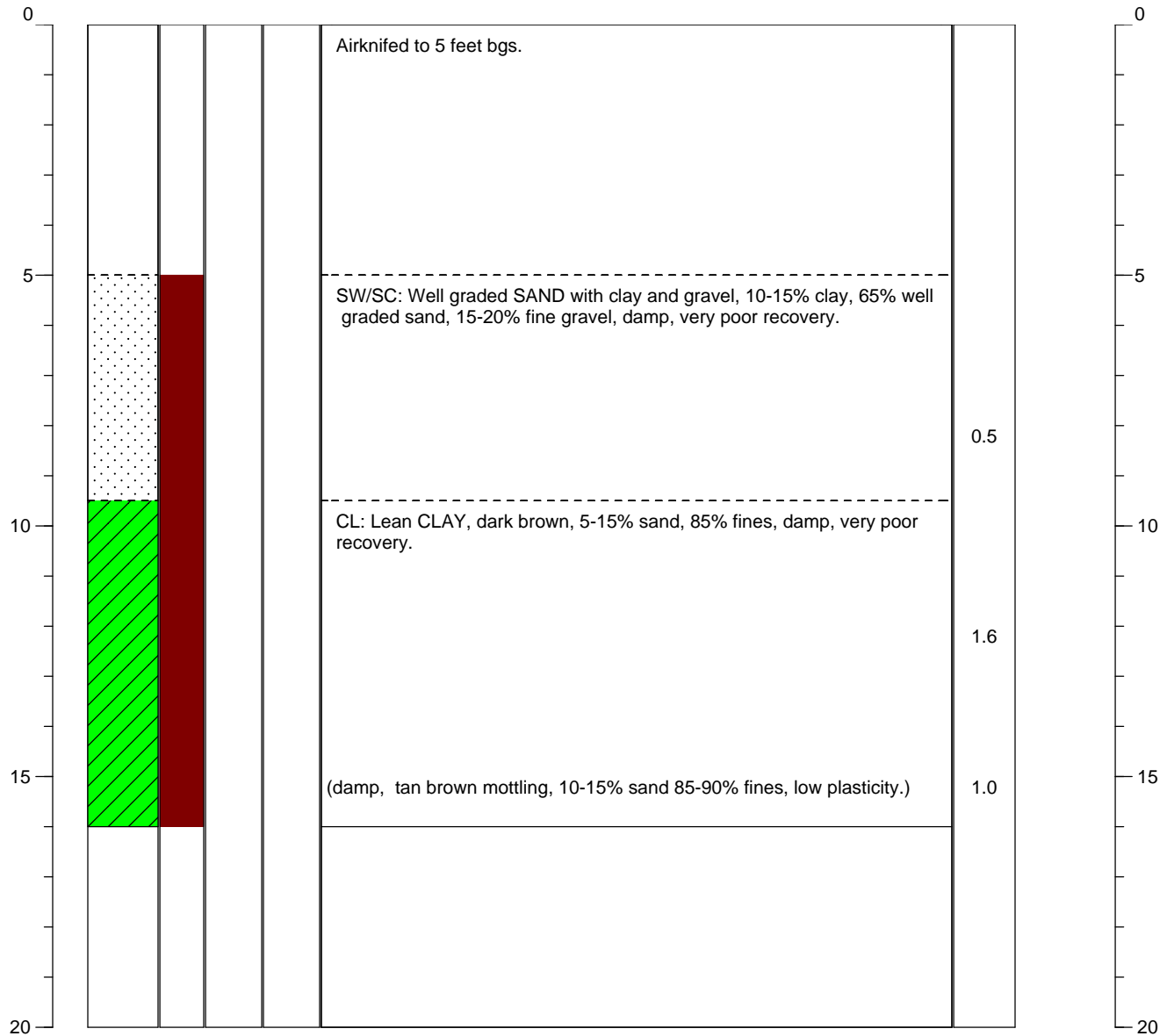
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/21/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **16**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Direct Push
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

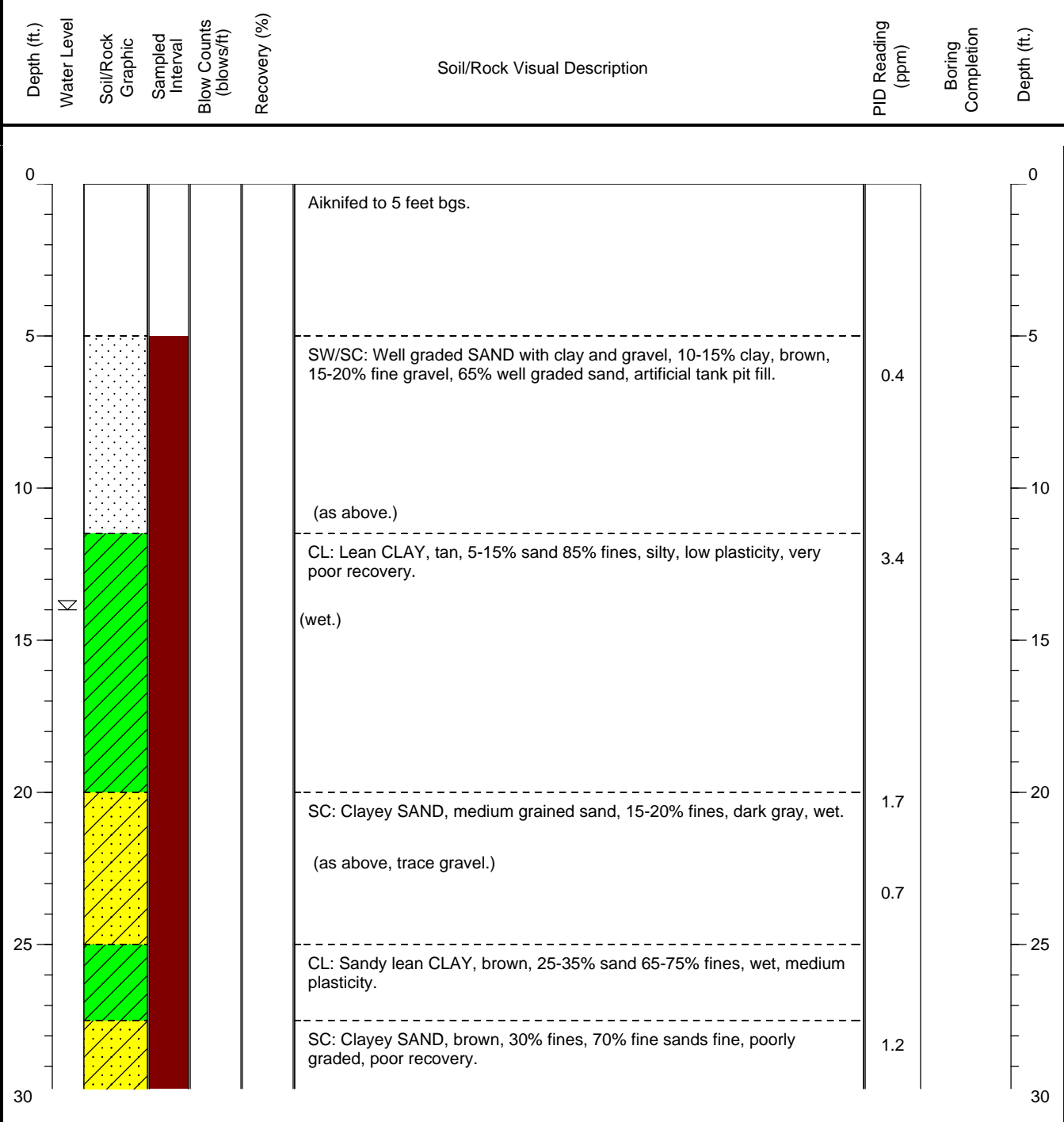
Boring No.
SB-2

Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/31/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **50**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Direct Push
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-2

Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/31/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **50**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Direct Push
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
30						(as above, wet, 15-20% fines.)	2.3		30
35						(as above, trace fine gravel.)	1.1		35
40						(as above.)			40
40						CL: Lean CLAY, blue to green, low to medium plasticity, damp, poor recovery.	0.5		40
45						SC: Clayey SAND, 15-25% fines, 85-75% fine sand, unconsolidated fines.			45
45						CL: Lean CLAY, brown, low plasticity, 10-15% fine sand, fine gravel (trace), bottom of shoe: poorly graded sand, beige green, slightly cemented, micro bedding.	0.3		45
50						(as above, pockets of green sand, 5-10% well rounded fine gravel, <5% fines.) (15-20% fine sand, medium plasticity.)			50
50						SP: Poorly graded SAND, pockets of green sand, 5-10% well rounded fine gravel, <5% fines.	0.5		50
55									55



BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-3

Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **50**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Direct Push
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
0						Airknifed to 5 feet bgs.			0
5						CL: Lean CLAY, gray brown, 5-15% sand (fine) 85-95% fines, medium plasticity, moist.			5
8						SC: Clayey SAND, brown gray, 35-45% clay, low plasticity, fine sand, moist.	1.0		8
10						CL: Sandy lean CLAY, brown, 20-30% well graded sand 70-80% fines, medium plasticity, root holes.	1.2		10
12						(as above, color transition, brown with tan mottling.)	1.0		12
15						(as above, root holes, wet.)	1.7		15
20						CL: Lean CLAY slightly cemented and fractured, crystallization, pieces of sandstone.	1.2		20
25						(brown, <5% sand, medium plasticity.)	0.4		25
28						CL: Sandy lean CLAY, 30-35% fine sand, brown, low plasticity.			28
30						SP/SC: Poorly graded SAND with clay, brown, 5-15% clay, fine sand,			30



BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

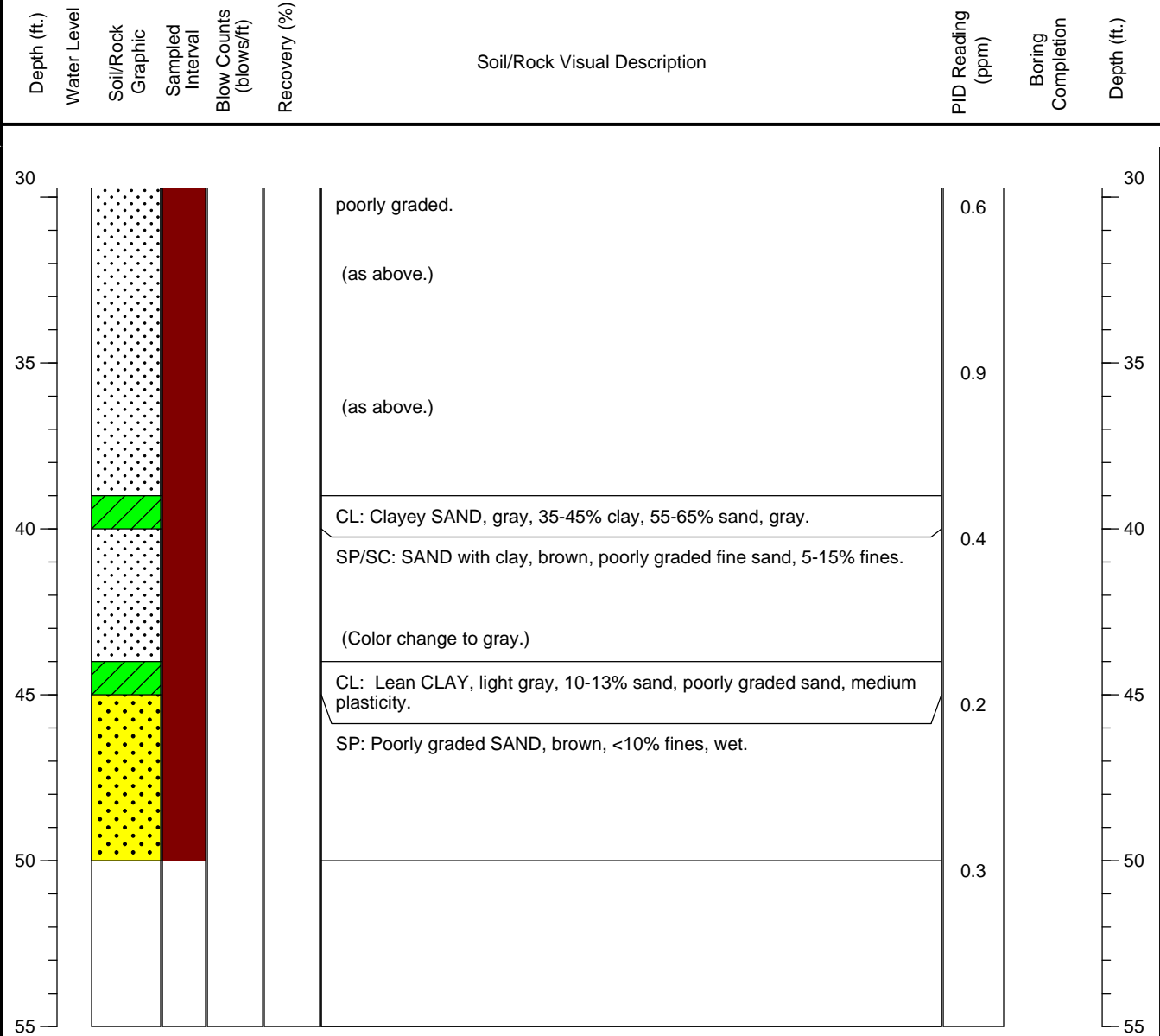
Boring No.
SB-3

Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **50**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Direct Push
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-4

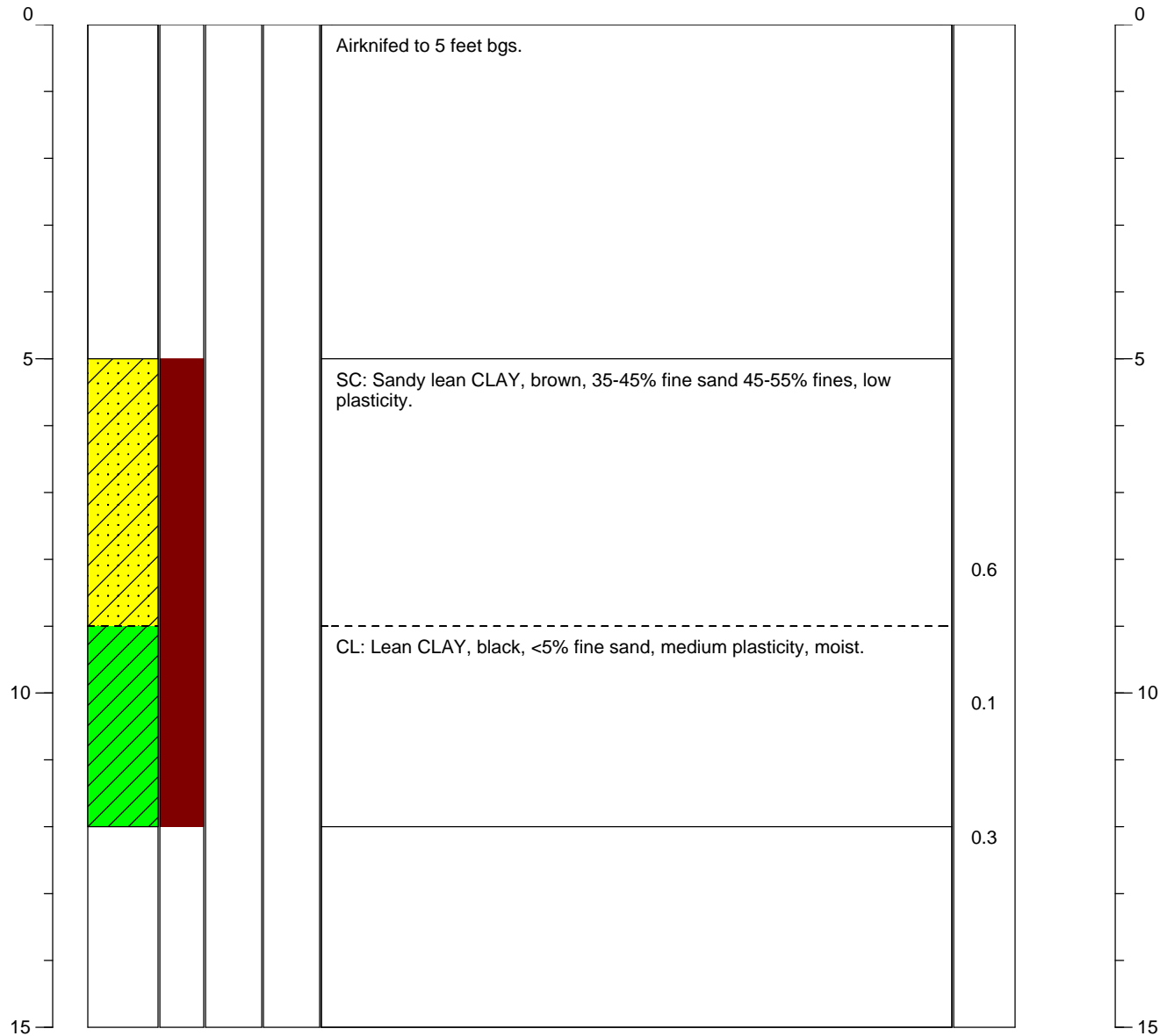
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/20/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Direct Push
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-5

Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Cora Olson**

Drilling Date(s): **6/21/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Acetate Liner
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
0						Airknifed to 5 feet bgs.			0
5					100%	CL: CLAY with sand and gravel(70/20/10), brown, dry.	0.7		5
					100%	CL: CLAY, trace sand, brown, dry.	0.6		
					100%	CL: CLAY, brown, dry.	0.9		
10					100%		0.7		10
					100%		0.7		
15									15
20									20



BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-6

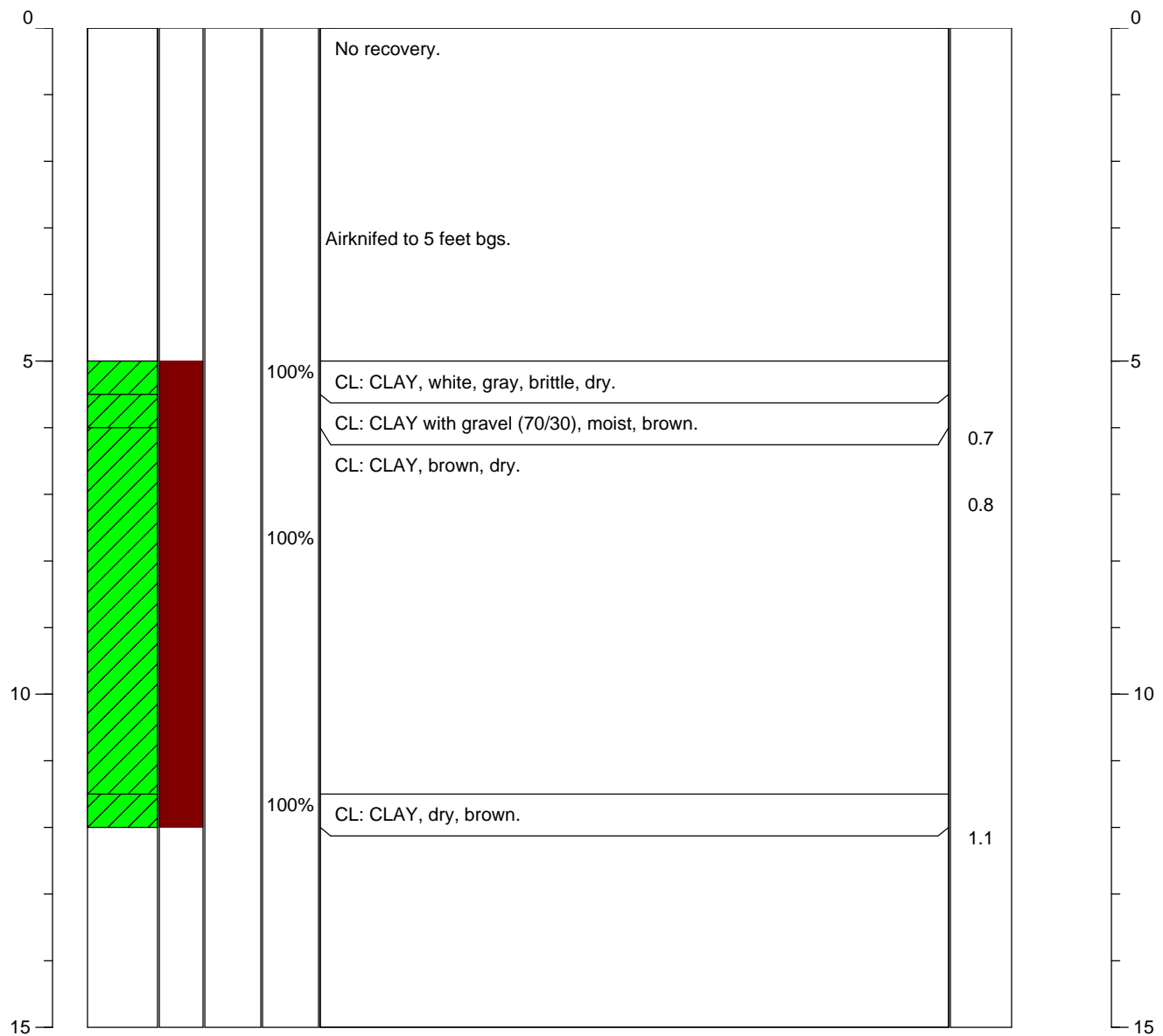
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Cora Olson**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Acetate Liner
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





Client **Shell Oil Products**
 Project Number **SCA152751D**

BORING LOG

Boring No.
SB-7

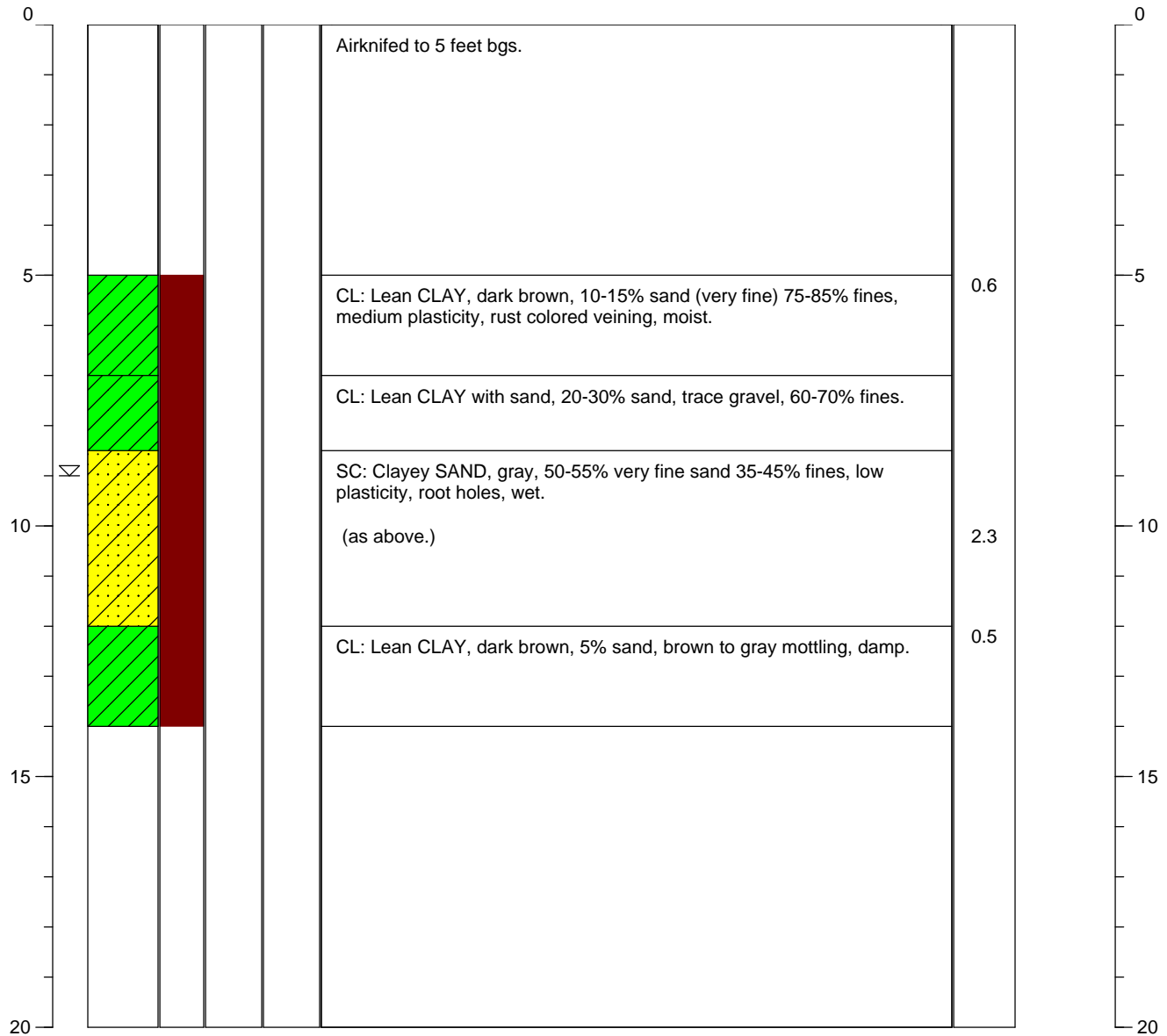
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/21/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **14**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

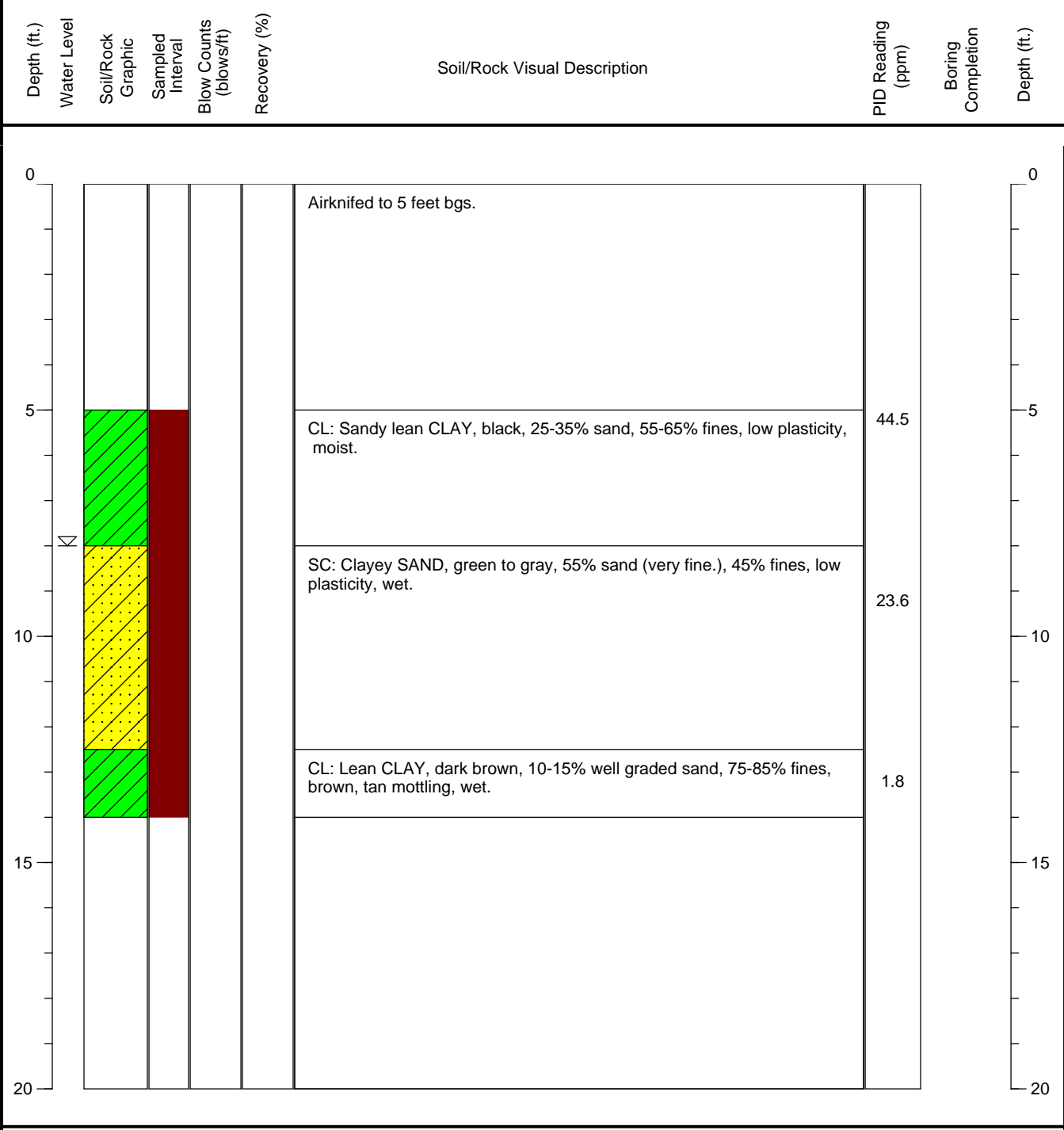
Boring No.
SB-8

Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/21/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **14**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-9

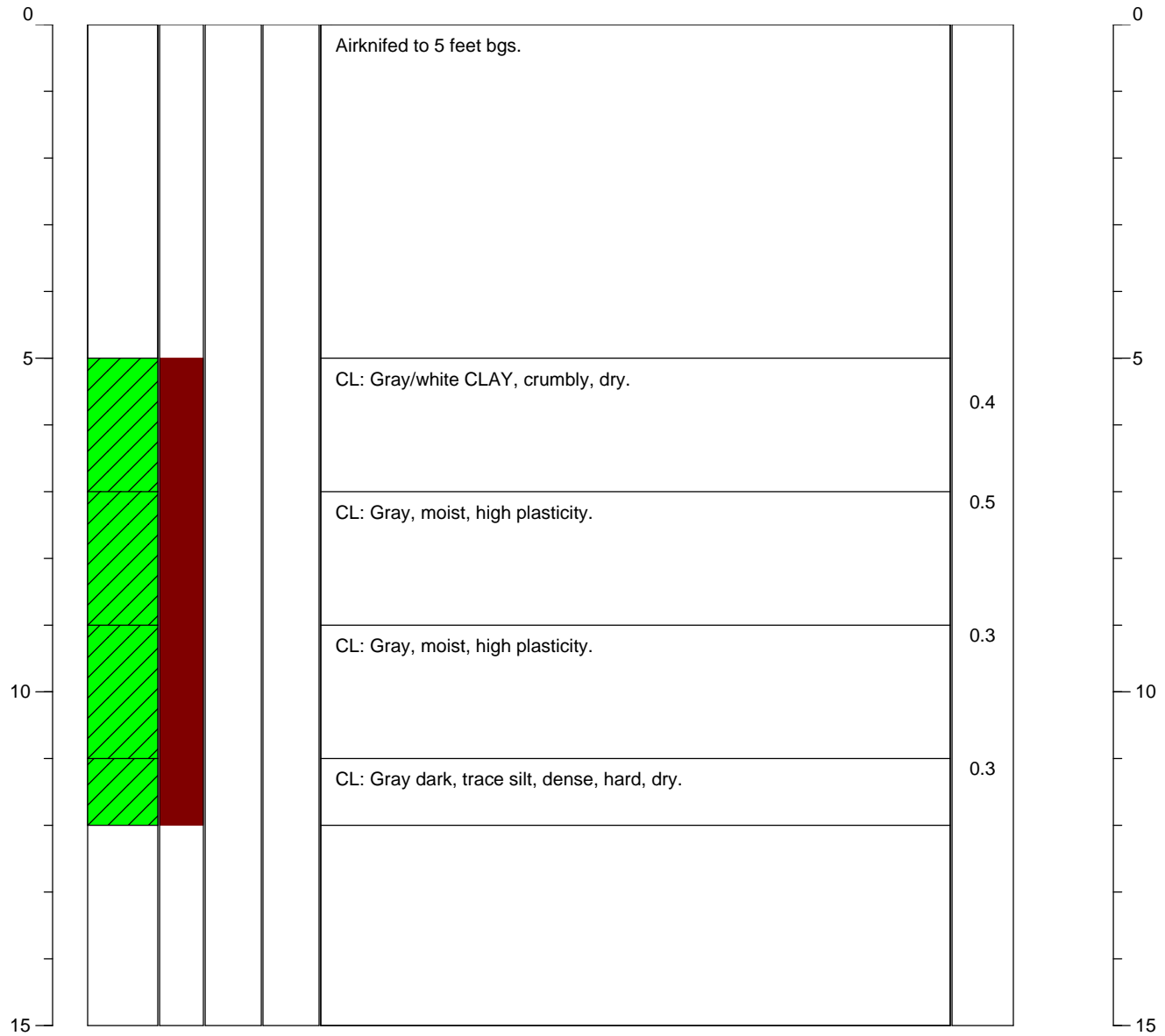
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Cora Olson**

Drilling Date(s): **6/21/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-10

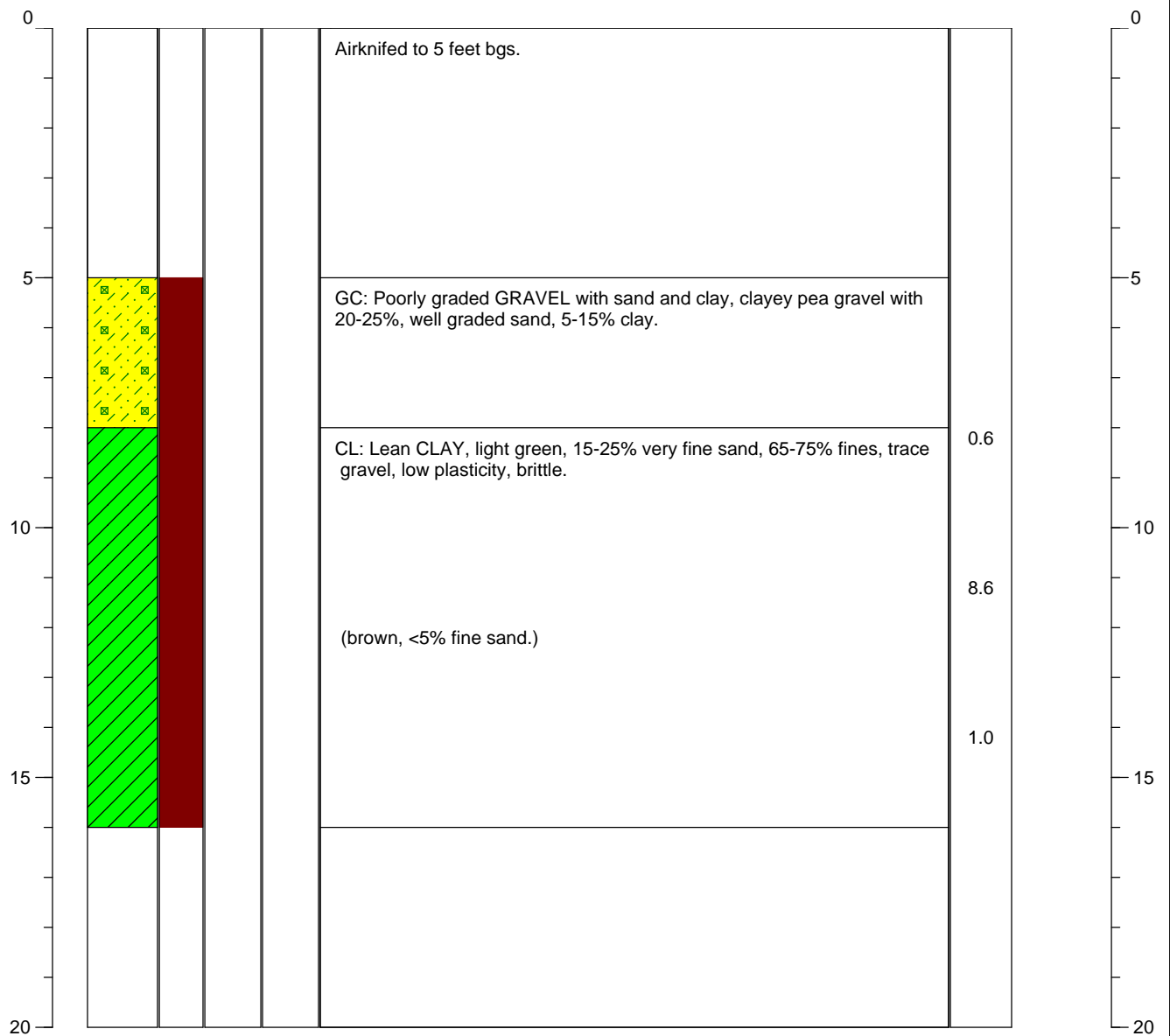
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/21/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **16**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-11

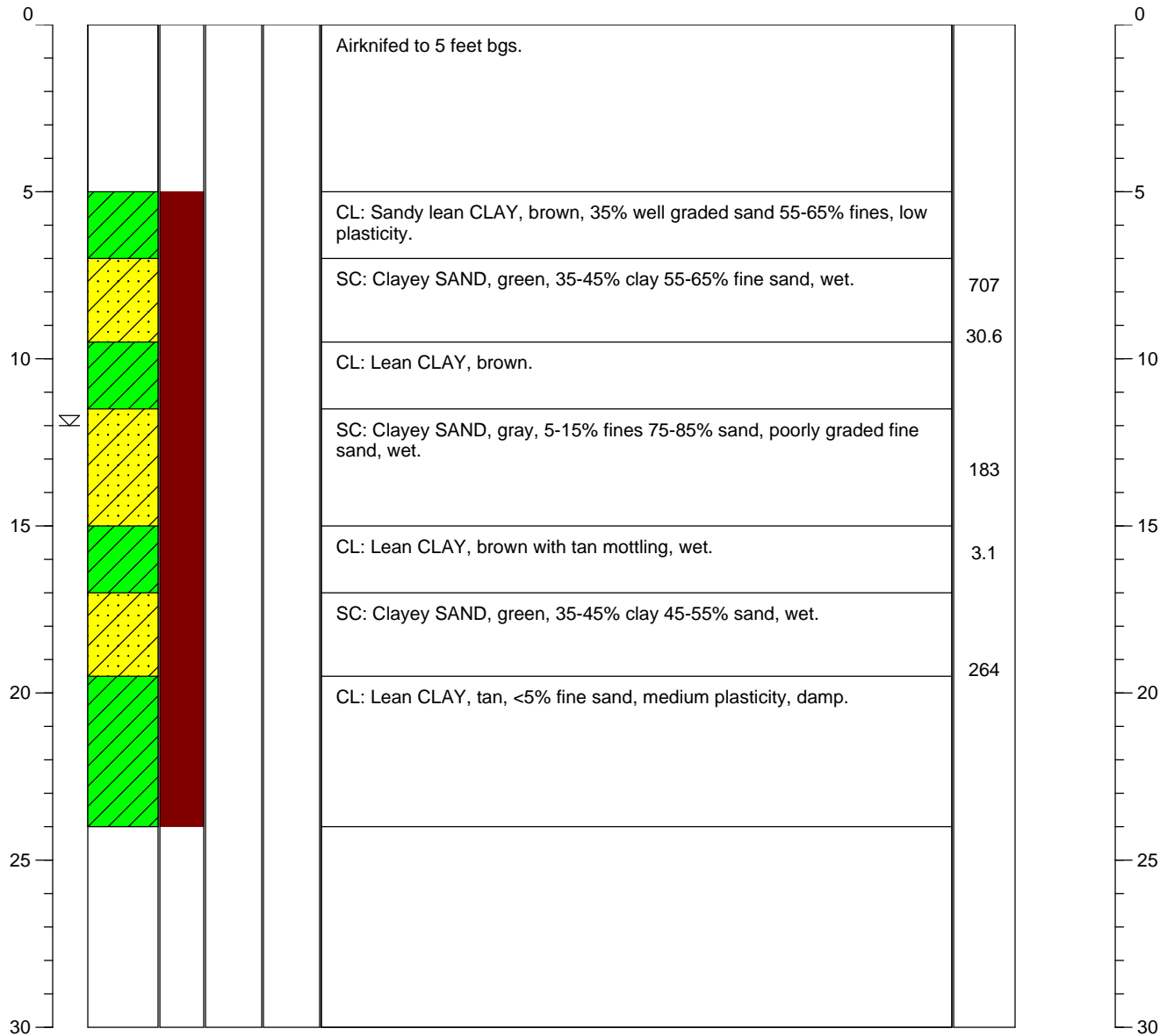
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **24**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-12

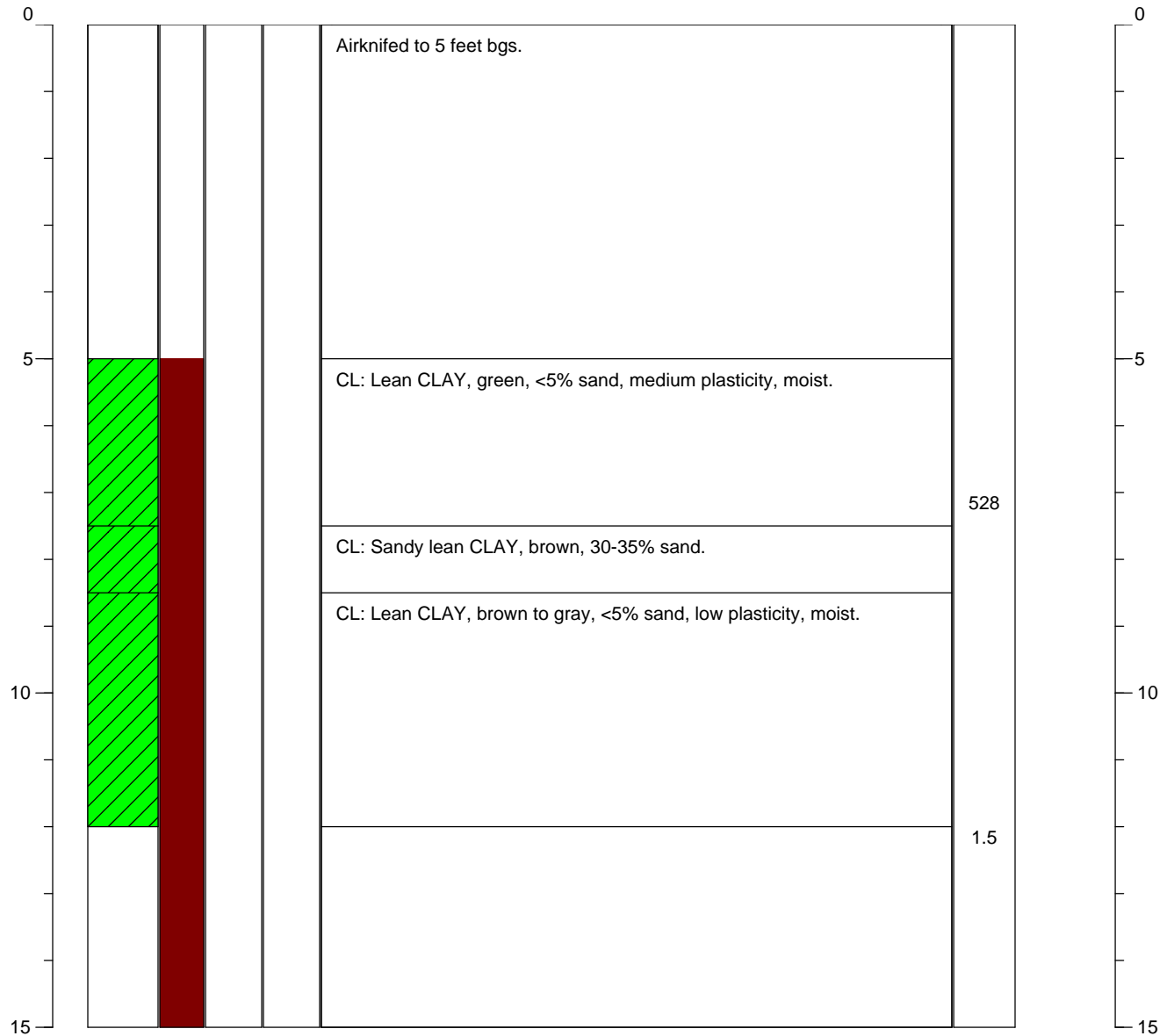
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Nadine Periat**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-13

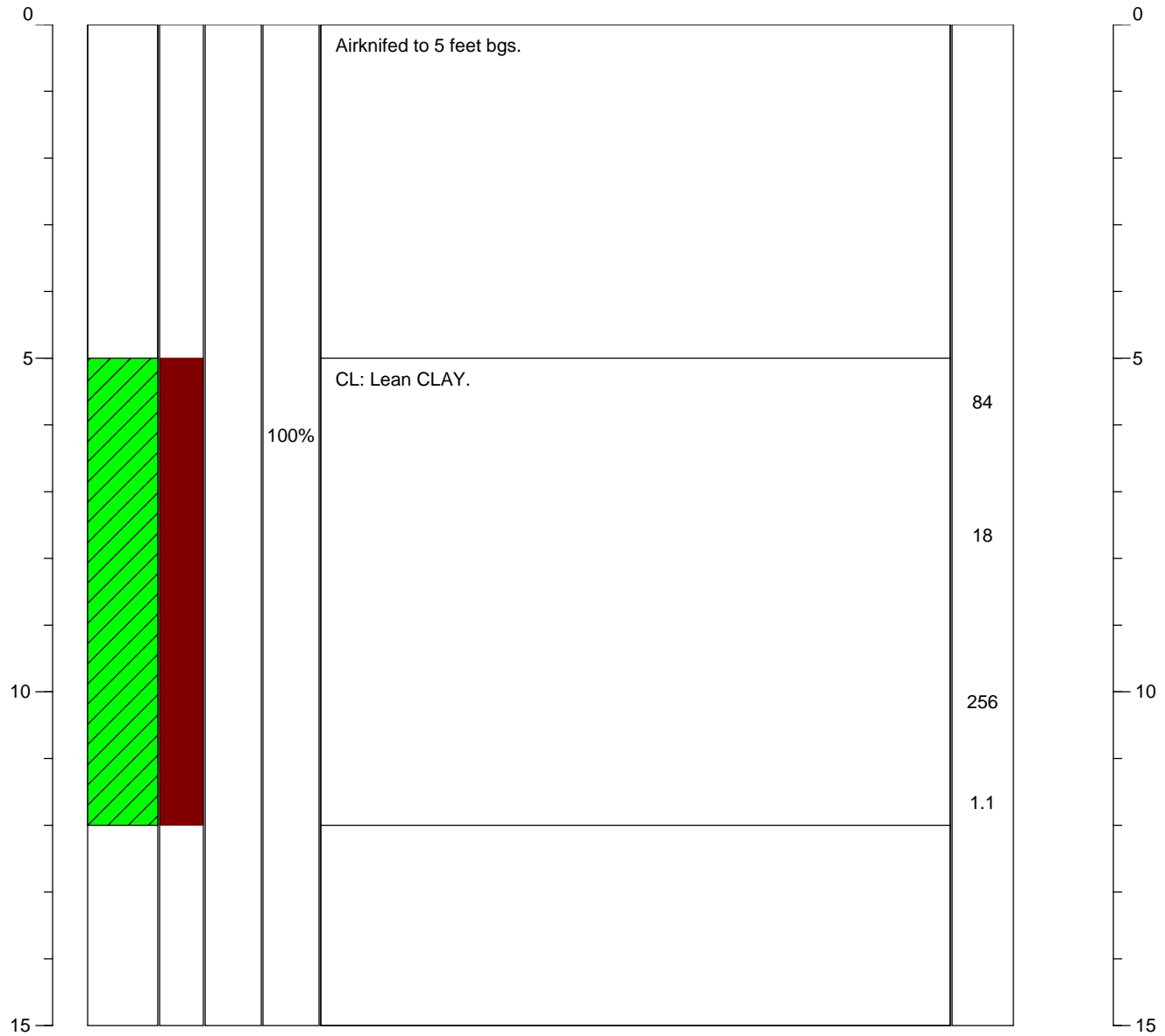
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Cora Olson**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------





BORING LOG

Client **Shell Oil Products**
 Project Number **SCA152751D**

Boring No.
SB-14

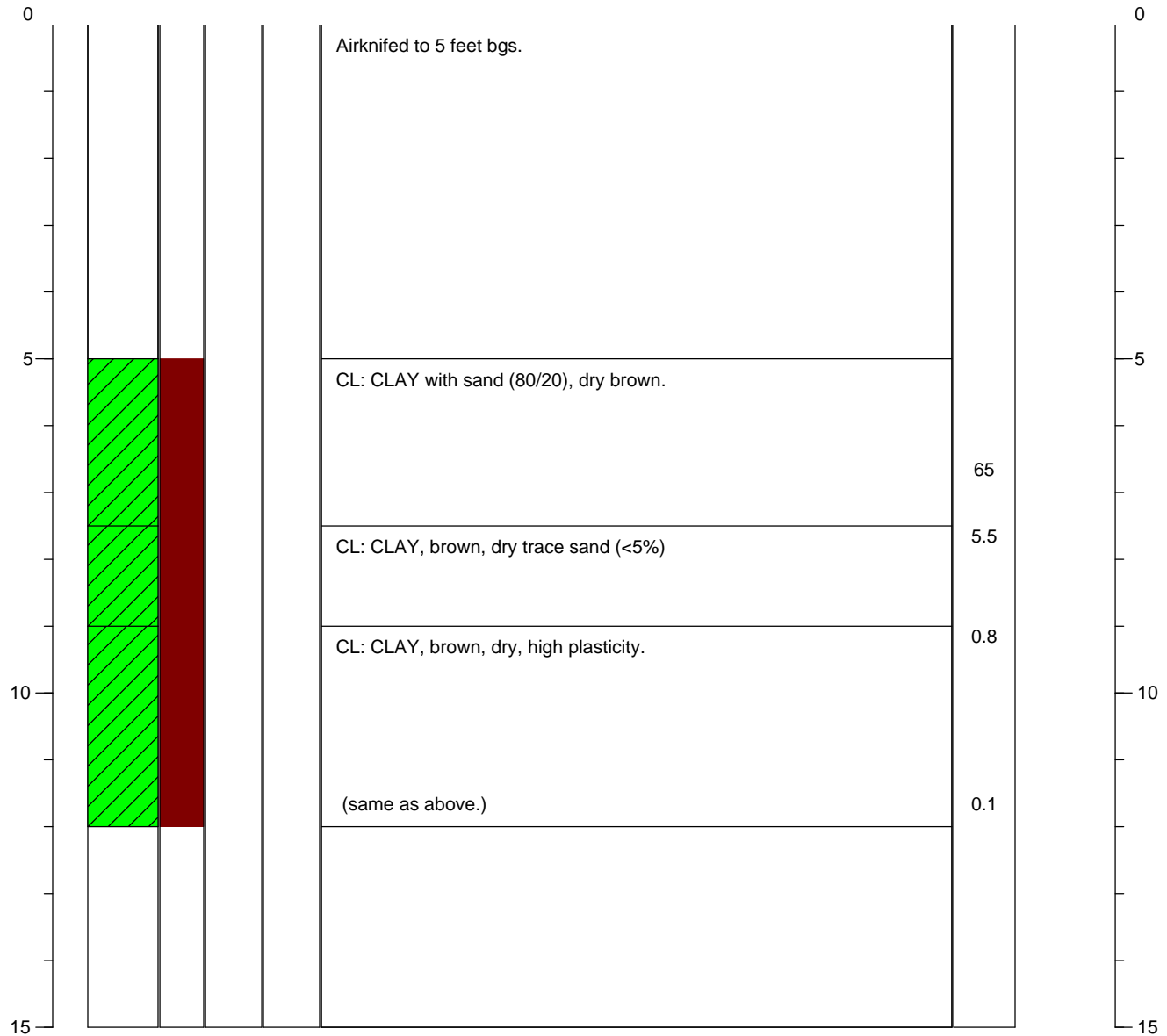
Address:
15275 Washington Ave
San Leandro, CA
 Logged By: **Cora Olson**

Drilling Date(s): **6/22/2010**
 Drilling Company: **GDT**
 Drilling Method: **Geoprobe**
 Boring Depth (ft): **12**

Boring diameter (in.): **1-3/4**
 Sampling Method:
Geoprobe
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

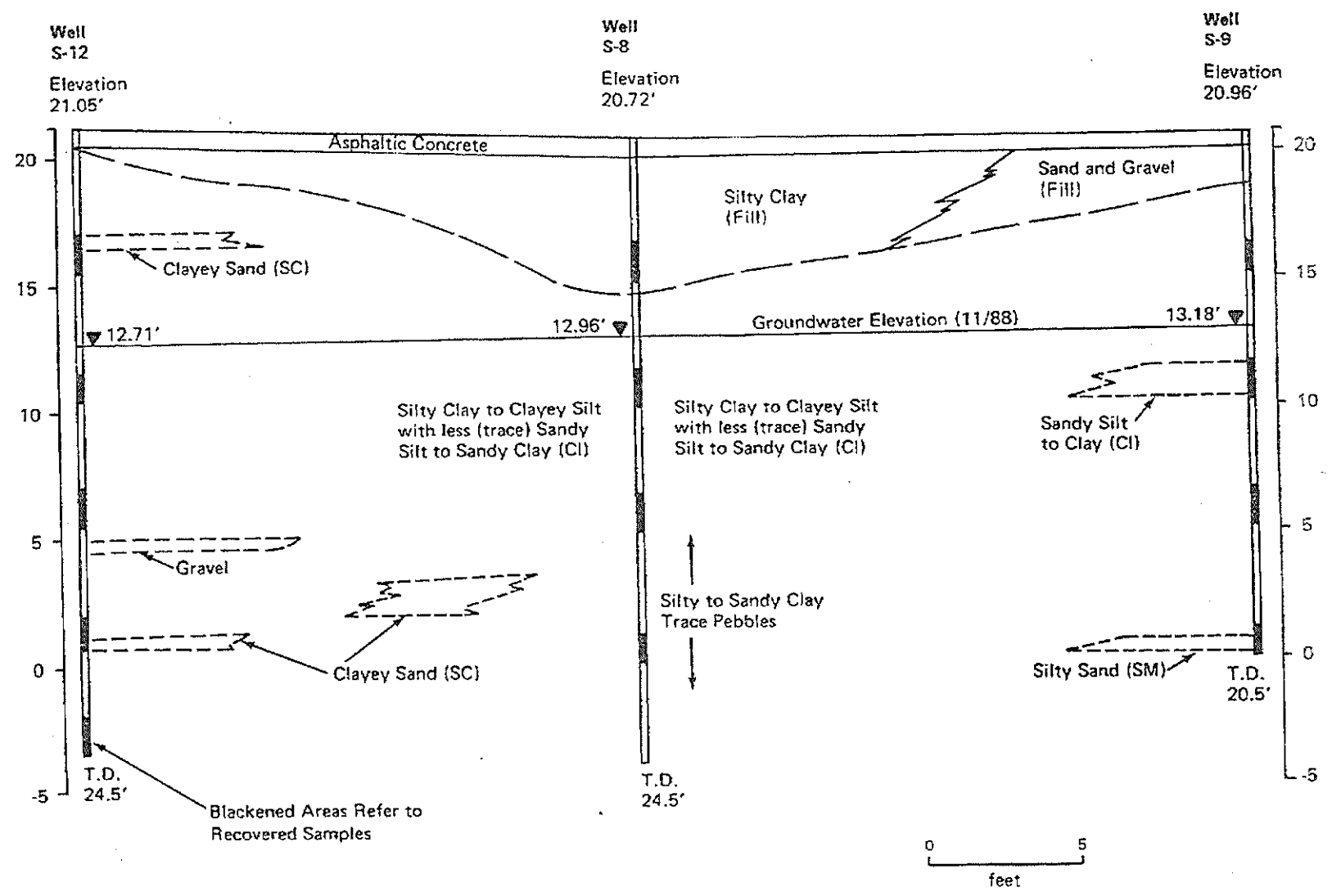
Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Boring Completion	Depth (ft.)
-------------	-------------	-------------------	------------------	------------------------	--------------	------------------------------	-------------------	-------------------	-------------



APPENDIX C
HYDROGEOLOGIC CROSS-SECTIONS

Woodward-Clyde Consultants	Project No. 8820011A
	Gertler Ryan
CROSS SECTION SHELL SERVICE STATION LEWELLING BLVD. AND WASHINGTON AVE. SAN LEANDRO, CALIFORNIA	Figure 6



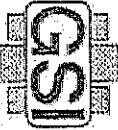
JOB NUMBER
7615

REMOVED BY RGC/EG
Camp CEC 1262

DATE
6/89

REVISED DATE

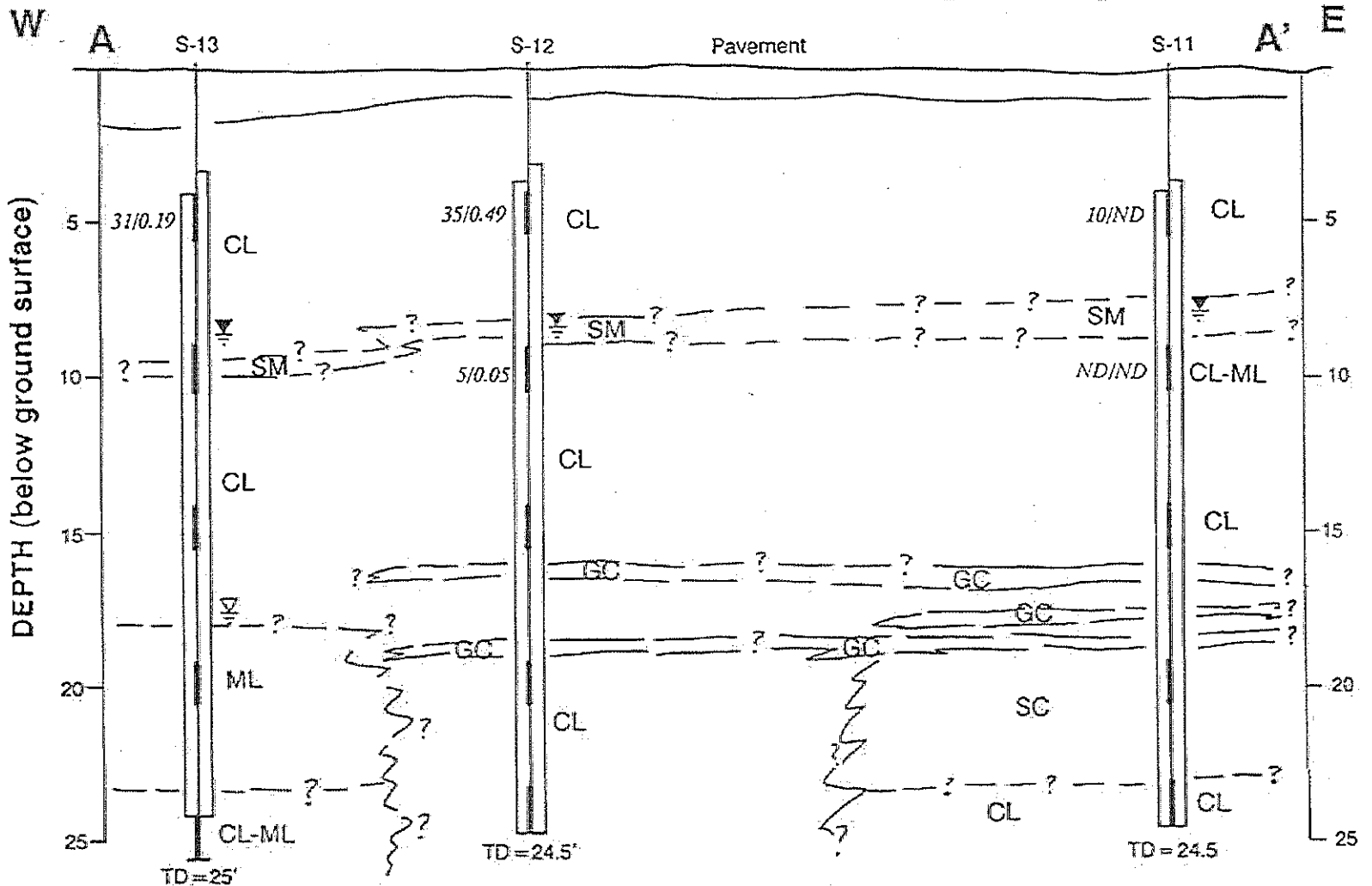
REVISED DATE



GeoStrategies Inc.

Cross-section A-A'
Former Shell Service Station #1093
15275 Washington Avenue
San Leandro, California

DATE
5

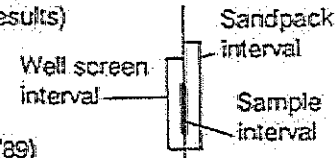


NOTE:

- 1) General Stratigraphic relationships are displayed. Additional horizontal and vertical variations may exist.
- 2) Refer to boring logs for descriptions of each soil type.

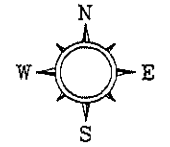
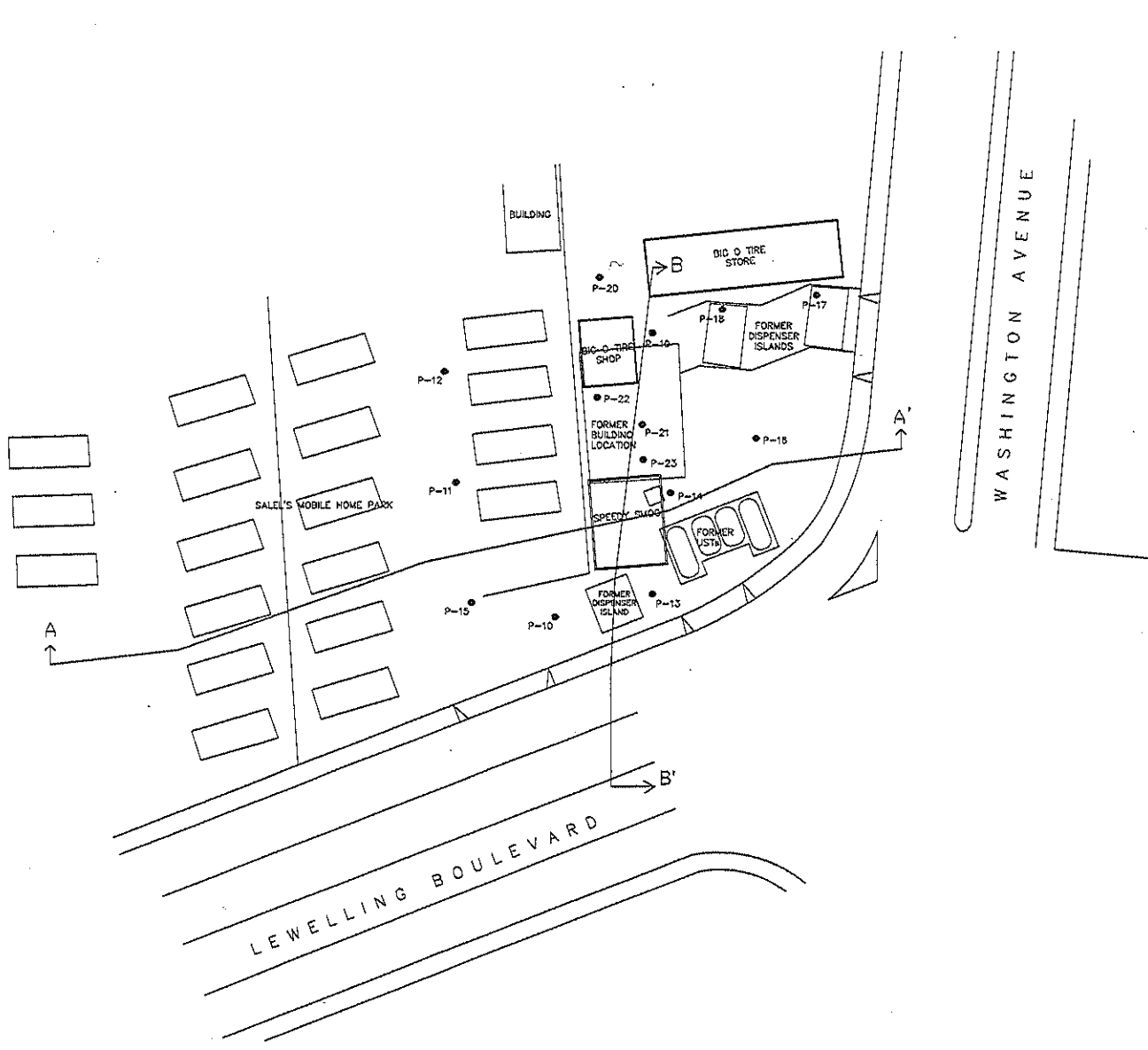
EXPLANATION

- 31/0.19 = TPH/Benzene concentrations (see laboratory analytical results)
- = First encountered groundwater level
- = Static water level (measurements taken 4/26/89)



Horz. Scale: 1" = 30'
Vert. Scale: 1" = 5'


DRAWN BY CD	CHECKED BY AD	APPROVED BY	PROJECT NUMBER SCA15275-1
9/17/03	9/17/03		



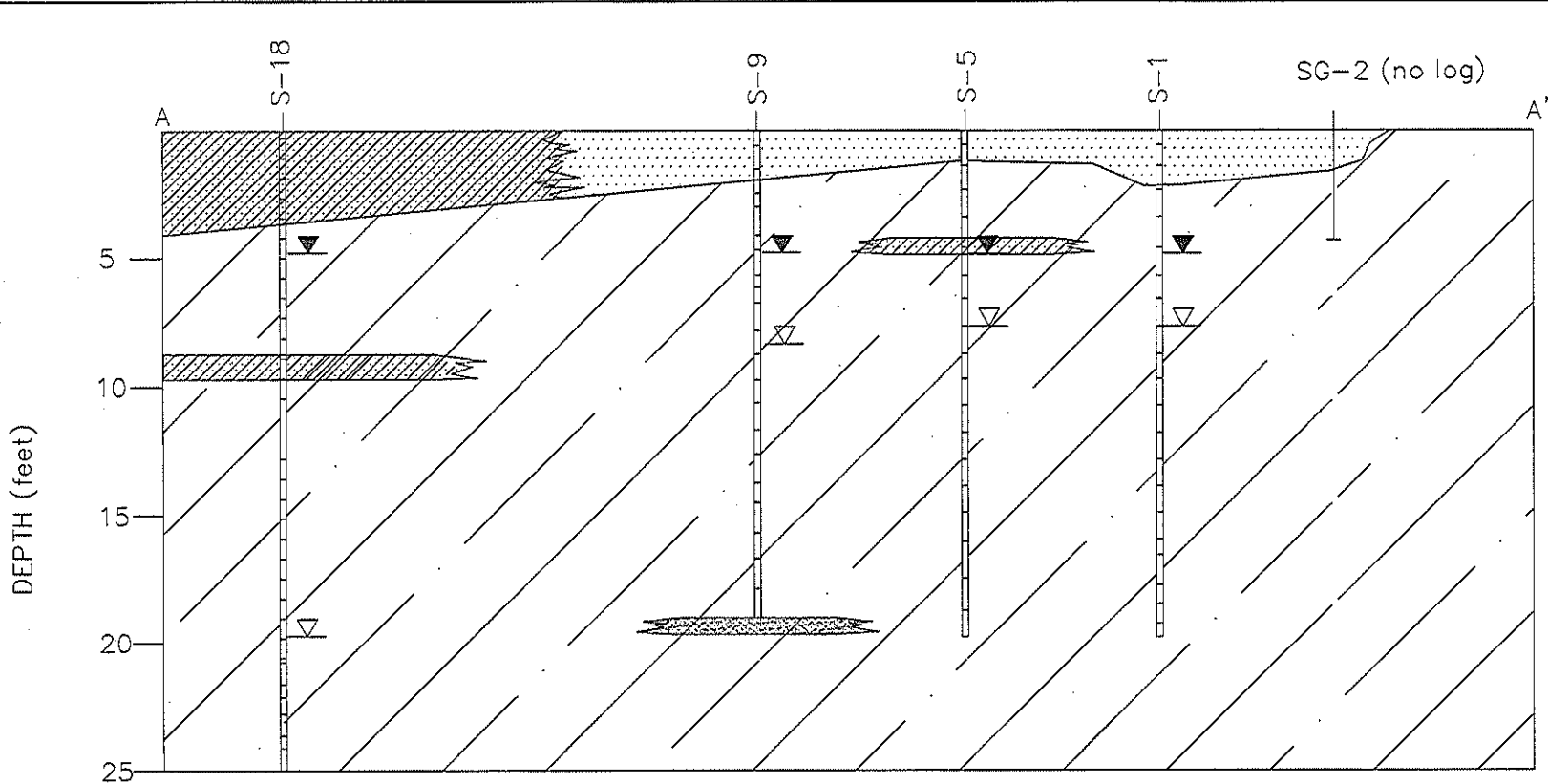
LEGEND
 P-23 ● SOIL VAPOR SAMPLE LOCATION







A' ↑
 HYDRO-GEOLOGIC
 CROSS-SECTION


0 25 50
 SCALE IN FEET


 DELTA CONSULTANTS
SHELL OIL PRODUCTS U.S. FORMER SHELL-BRANDED SERVICE STATION SAN LEANDRO, CALIFORNIA
FIGURE 2 SITE MAP
15275 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA

DRAWN BY: CD
 CHECKED BY: CD
 APPROVED BY: CD
 PROJECT NUMBER: SCA15275

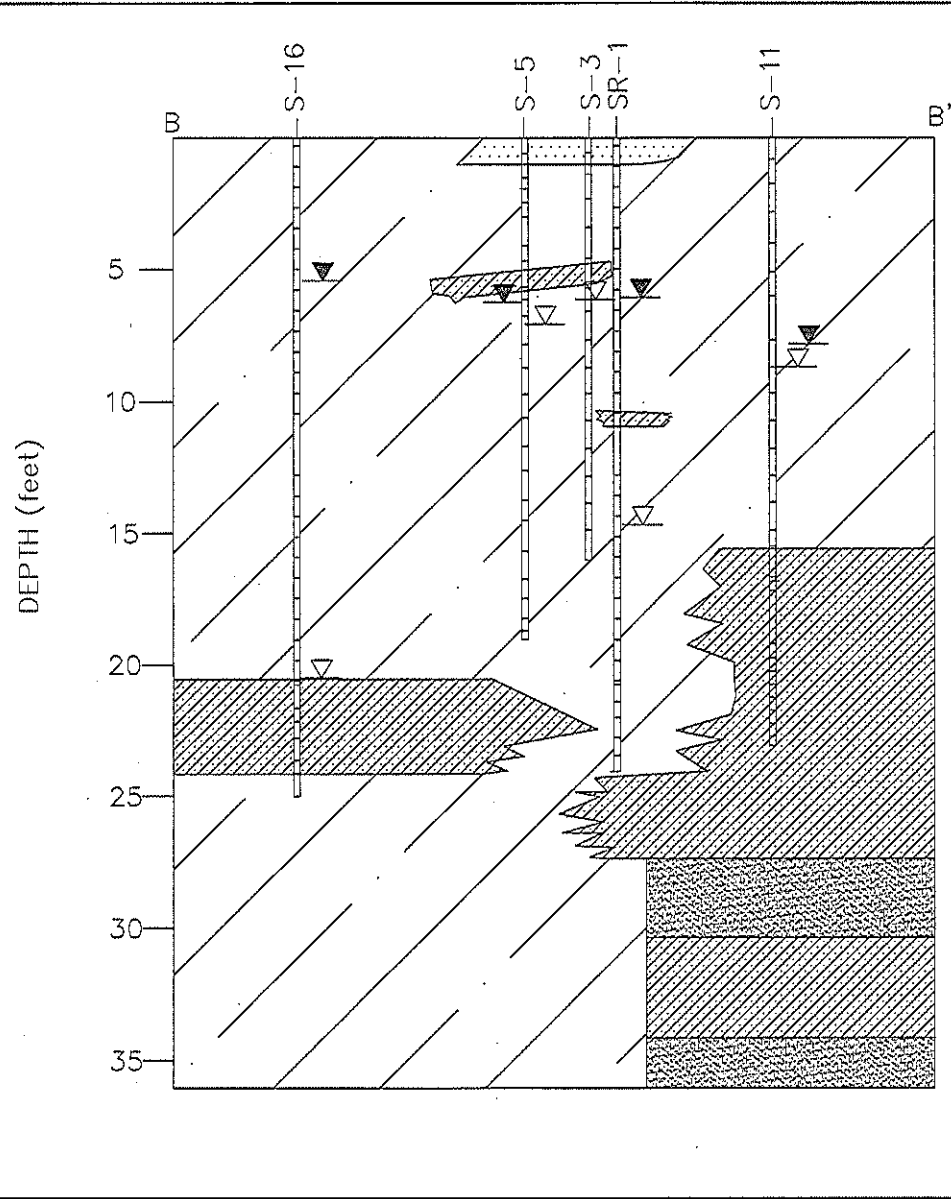


-  FILL; GRAVEL, BASE ROCK
-  CLAY AND SILT
-  SILTY SAND, CLAYEY SAND AND SANDY SILT
-  SAND
-  FIRST ENCOUNTERED GROUNDWATER
-  WATER LEVEL IN WELL, JANUARY 2008








 WELL-SCREENED INTERVAL
 A TO A' = 270 FEET

 **DELTA CONSULTANTS**
 SHELL OIL PRODUCTS US
 SHELL SERVICE STATION
 SAN LEANDRO, CALIFORNIA
 FIGURE 6
 HYDROGEOLOGY CROSS SECTION A - A'
 15275 WASHINGTON BLVD.
 SAN LEANDRO, CALIFORNIA


DRAWN BY: 09/11/03
 CHECKED BY: 09/22/03
 APPROVED BY: SCA15275
 PROJECT NUMBER



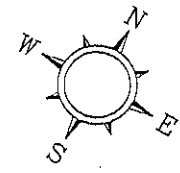
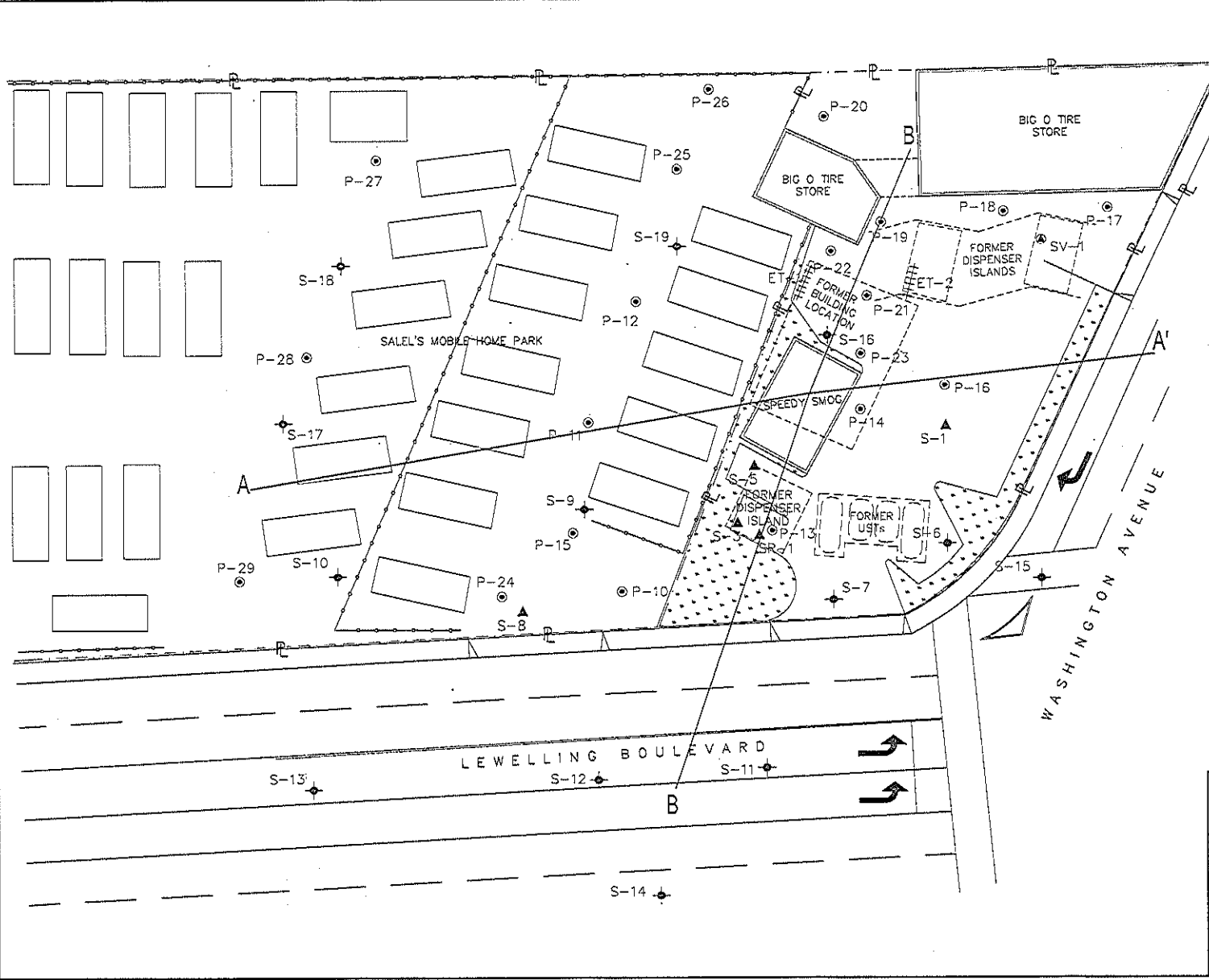
LEGEND

-  FILL; GRAVEL, BASE ROCK
-  CLAY AND SILT
-  SILTY SAND, CLAYEY SAND AND SANDY SILT
-  SAND
-  FIRST ENCOUNTERED GROUNDWATER
-  WATER LEVE IN WELL, JANUARY 2008
-  WELL-SCREENED INTERVAL

B TO B' = 175 FEET


DELTA CONSULTANTS
 SHELL OIL PRODUCTS US
 SHELL SERVICE STATION
 SAN LEANDRO, CALIFORNIA
 FIGURE 6
 HYDROGEOLOGY CROSS SECTION B - B'
 15375 WASHINGTON BLVD
 SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA15275-1
 APPROVED BY
 CHECKED BY
 DRAWN BY AD 11/19/2009



- LEGEND**
- S-15 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 ▲ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 ⊕ SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-18 ⊙ SOIL VAPOR PROBE LOCATION AND DESIGNATION
 - ET-1+ CURRENT BUILDING LOCATION LOCATION AND DESIGNATION
 - EXTENDED TEST WELL
 - TRAILER PARK STRUCTURE
 - - - - - FORMER BUILDING
 - - - - - FORMER UST LOCATION
 - P - PROPERTY LINE
 - FENCING
 - A—A' CROSS SECTION DIRECTION

0 25 50
 SCALE IN FEET

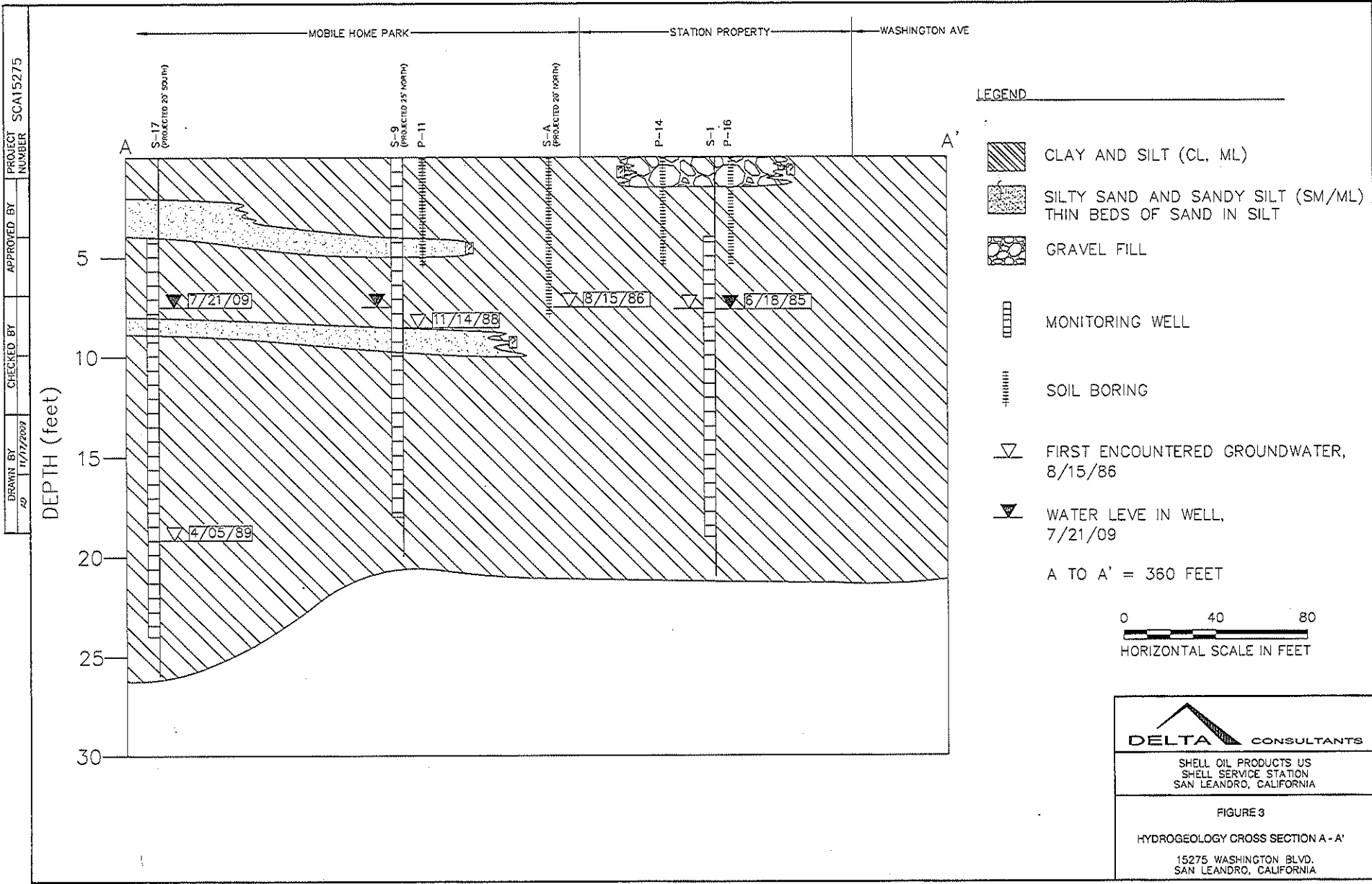
DELTA CONSULTANTS

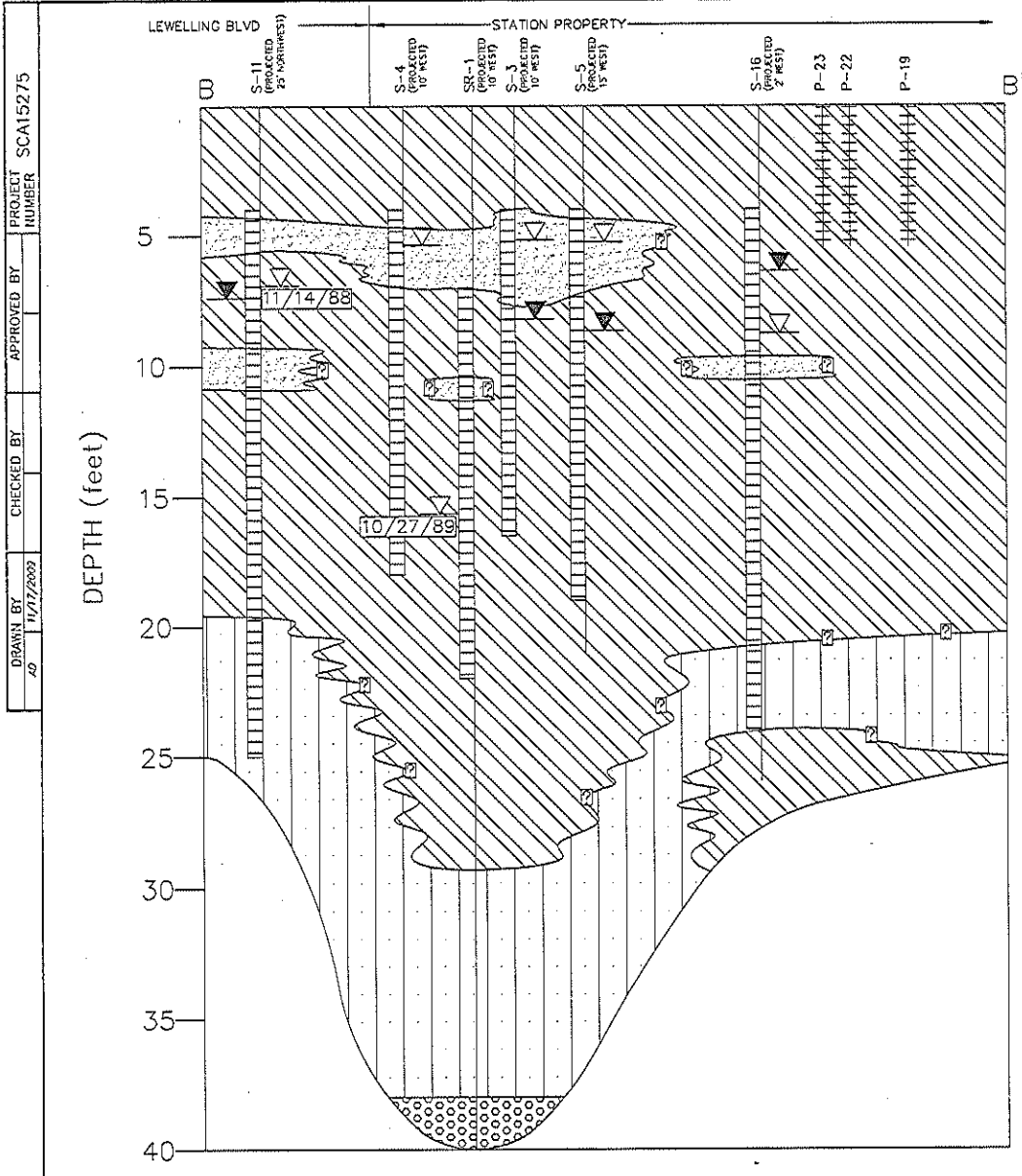
SHELL OIL PRODUCTS U.S.
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 2









SITE MAP

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

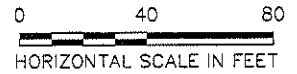





LEGEND

-  CLAY AND SILT (CL, ML)
-  SILTY SAND AND CLAYEY SAND (SM/ML)
THIN BEDS OF SAND IN SILT
-  SILTY SAND AND CLAYEY SAND (ML/SC)
-  SAND (SP)
-  MONITORING WELL
-  SOIL BORING
-  FIRST ENCOUNTERED GROUNDWATER
-  WATER LEVEL IN WELL
11/14/88

B TO B' = 270 FEET





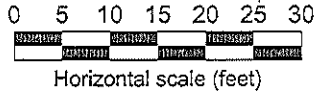
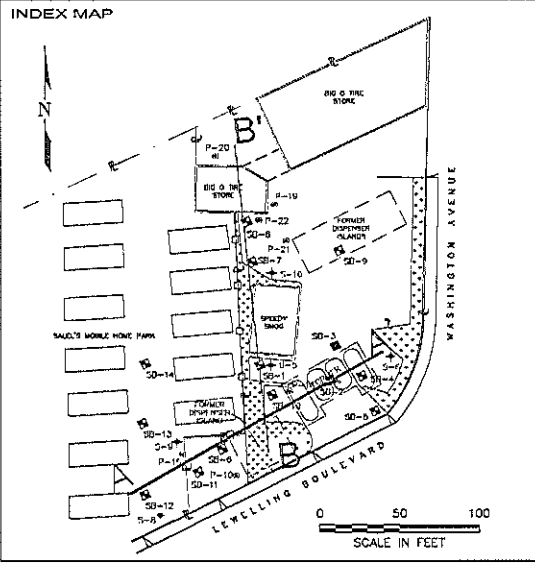
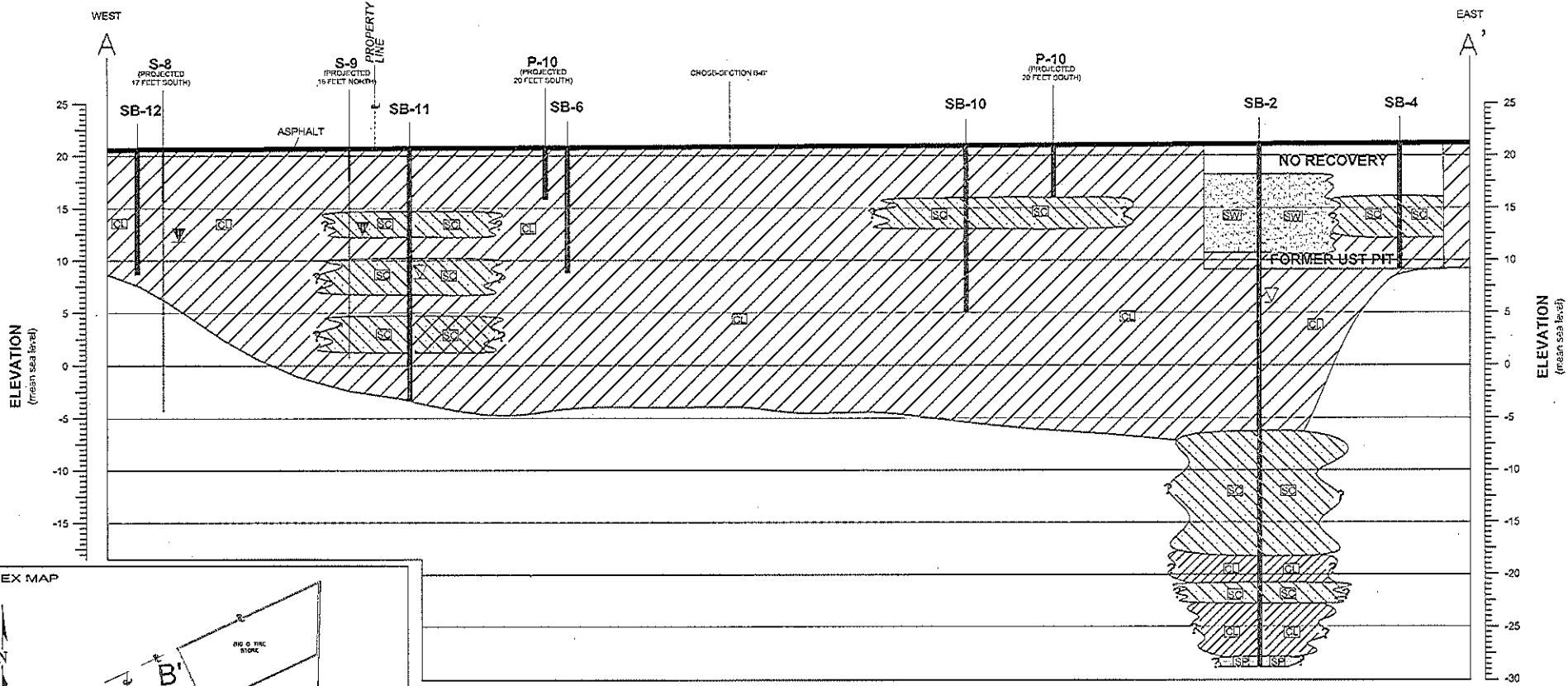
SHELL OIL PRODUCTS US
SHELL SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 4
HYDROGEOLOGY CROSS SECTION B-B'

15375 WASHINGTON BLVD
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA15275
 APPROVED BY
 CHECKED BY
 DRAWN BY 11/17/2009

PROJECT NUMBER SCA15275-1
 APPROVED BY
 CHECKED BY 4/29/2010
 DRAWN BY 4/29/2010



LEGEND

	Clay, Clayey silt low plasticity		Boring location		Groundwater First Encountered
	Sand, clayey		WELL CASING location		Groundwater Static
	Sand, well-graded		WELL SCREEN location		
	Sand, poorly graded				

DELTA CONSULTANTS

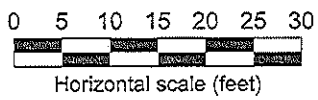
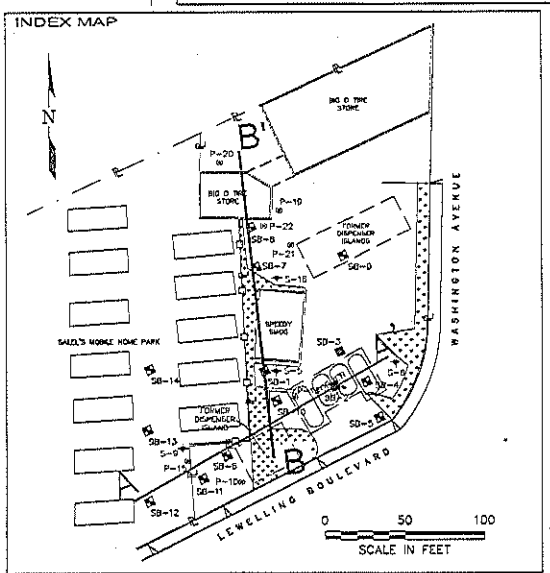
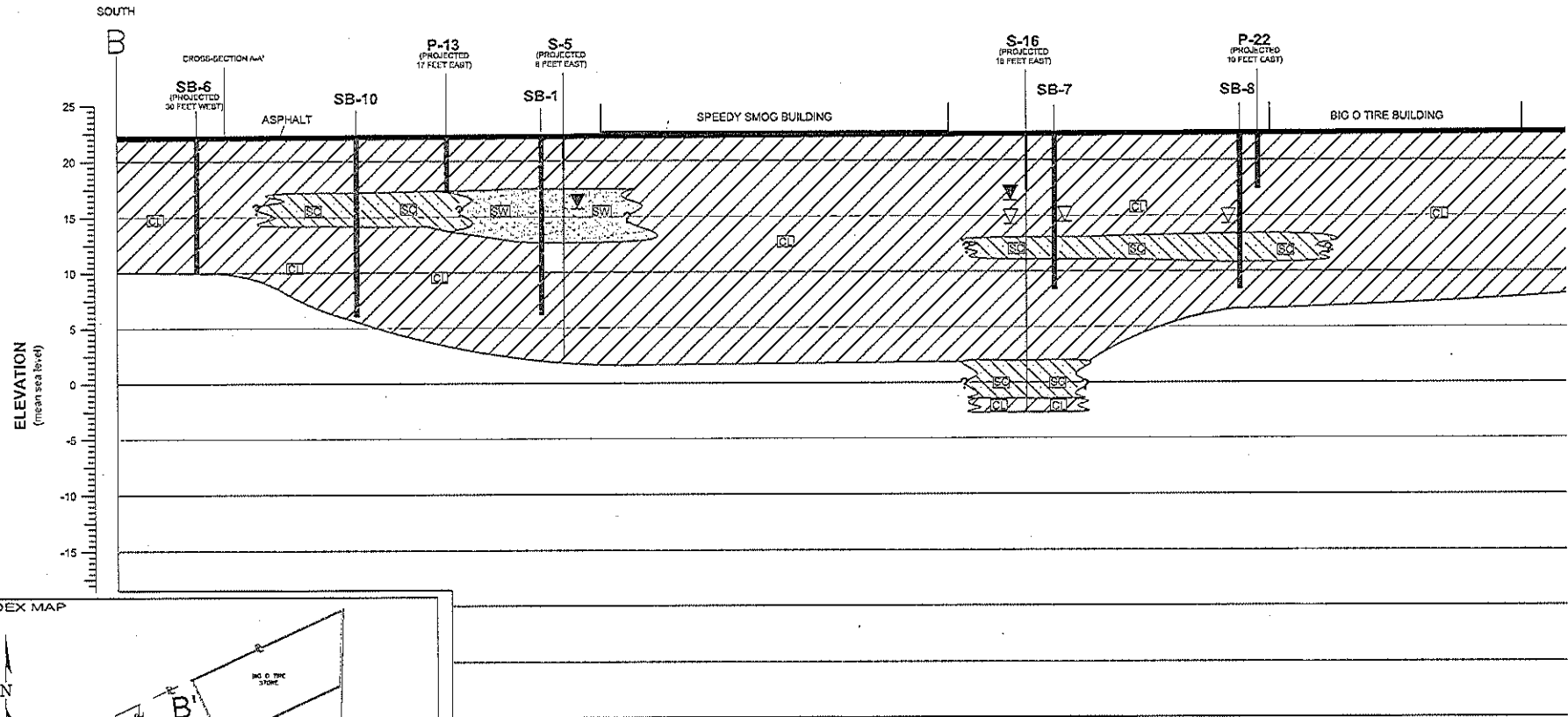
SHELL OIL PRODUCTS U.S.
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 3

CROSS-SECTION A-A'

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA15275-1
 APPROVED BY
 CHECKED BY 4/09/2010 LD
 DRAWN BY 4/09/2010 AD



LEGEND

	Clay, Clayey silt low plasticity		Boring location		Groundwater First Encountered
	Sand, clayey		WELL CASING location		Groundwater Static
	Sand, well-graded		WELL SCREEN location		

DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 4

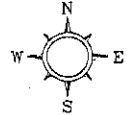
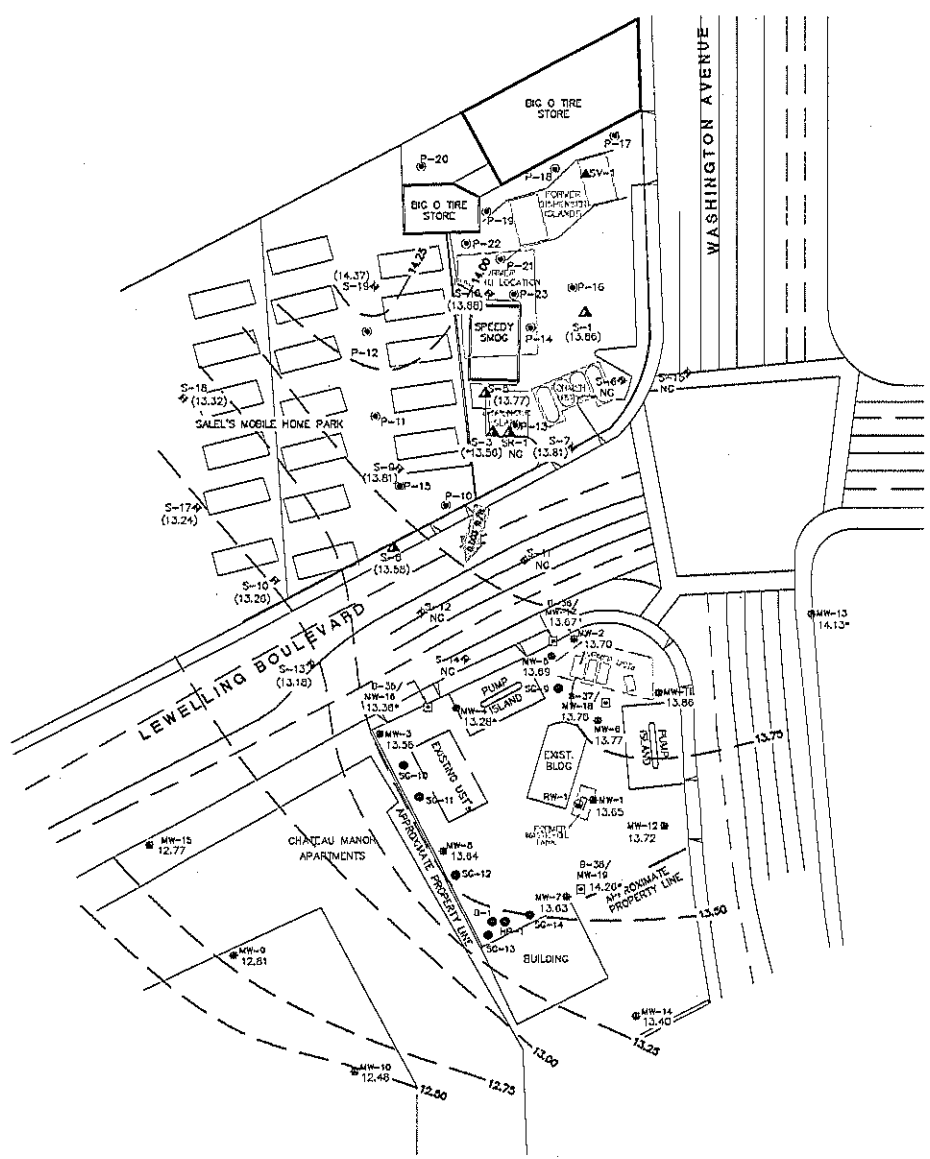
CROSS SECTION B-B'

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

APPENDIX D
HISTORIC GROUNDWATER CONTOUR MAPS

PROJECT SCA152751D
 DRAWN BY J.F.F.
 CHECKED BY 9/7/2010
 APPROVED BY

0 15 30
 SCALE IN FEET

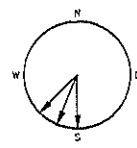


- LEGEND**
- S-6 Φ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 Δ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 Δ SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-10 Φ SOIL VAPOR SAMPLE LOCATION
 - NW-1 Φ GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
 - B-36/MW-19 \square SOIL BORING/GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
 - B-1 Φ SOIL GAS BORING/TEMPORARY VAPOR IMPLANT LOCATION (ARCO STATION)
 - RW-1 Φ SOIL VAPOR EXTRACTION WELL LOCATION (ARCO STATION)
 - (14.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
 - 14.00 --- GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
CONTOUR INTERVAL=0.25 FEET
 - \leftarrow APPROXIMATE GROUNDWATER DIRECTION
 - NG NOT GAUGED
 - * NOT USED IN CONTOURING ANOMALOUS DATA

NOTES
 ARCO STATION GROUNDWATER ELEVATION ADJUSTED BY 2.7 FEET

HISTORICAL GROUNDWATER FLOW DIRECTIONS

DATE	FLOW
1/22/2004	SW
1/27/2006	SW,SSW
7/25/2006	SW,SSW
1/4/2007	SW
7/24/2007	SSW
1/15/2008	S
8/4/2008	S,SSW
1/8/2009	SW
7/21/2009	SSW
1/12/2010	SSW
7/22/2010	SSW



DELTA CONSULTANTS

SHELL OIL PRODUCTS
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

**FIGURE 2
 GROUNDWATER ELEVATION CONTOUR
 MAP
 7/22/2010**

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

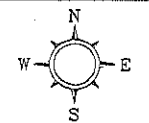
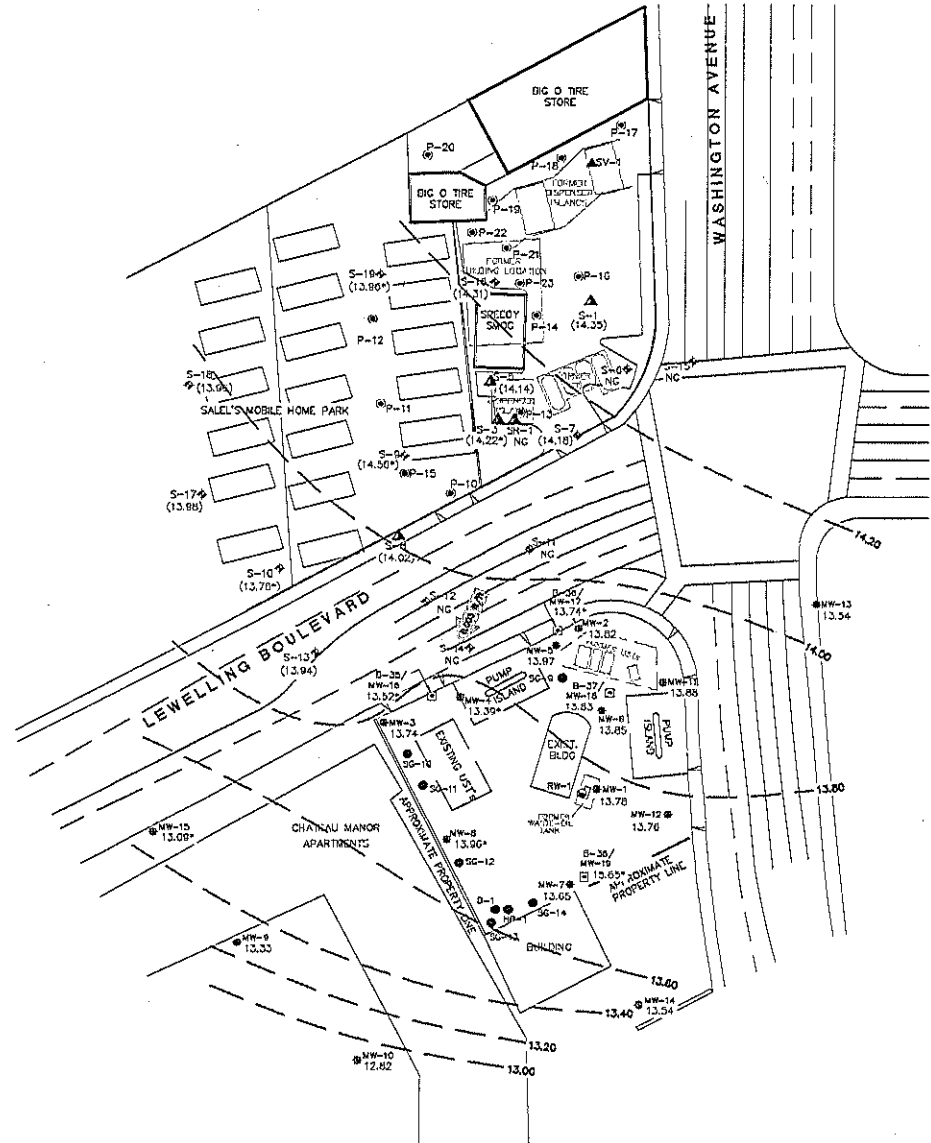
PROJECT NUMBER
SCA152751D

APPROVED BY

CHECKED BY

DRAWN BY
7/15/2010
J.F.F.

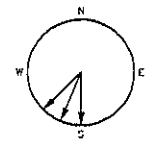
SCALE IN FEET
0 35 70



- LEGEND**
- S-8 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-16 SOIL VAPOR SAMPLE LOCATION
 - NW-1 GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
 - B-36/NW-19 SOIL BORING/GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
 - B-1 SOIL GAS BORING/TEMPORARY VAPOR IMPLANT LOCATION (ARCO STATION)
 - RW-1 SOIL VAPOR EXTRACTION WELL LOCATION (ARCO STATION)
 - (14.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FL/MSL)
 - 14.00 GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (FL/MSL)
CONTOUR INTERVAL=0.20 FEET
 - APPROXIMATE GROUNDWATER DIRECTION
 - NG NOT CAUSED
 - NOT USED IN CONTOURING ANOMALOUS DATA
- NOTES**
- ARCO STATION GROUNDWATER ELEVATION ADJUSTED BY 2.7 FEET

HISTORICAL GROUNDWATER FLOW DIRECTIONS

DATE	FLOW
1/27/2004	SW
1/27/2006	SW,SSW
7/25/2008	SW,SSW
1/4/2007	SW
7/24/2007	SSW
1/15/2008	S
8/4/2008	S,SSW
1/8/2009	SW
7/21/2009	SSW
1/12/2010	SSW



DELTA CONSULTANTS

SHELL OIL PRODUCTS
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

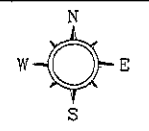
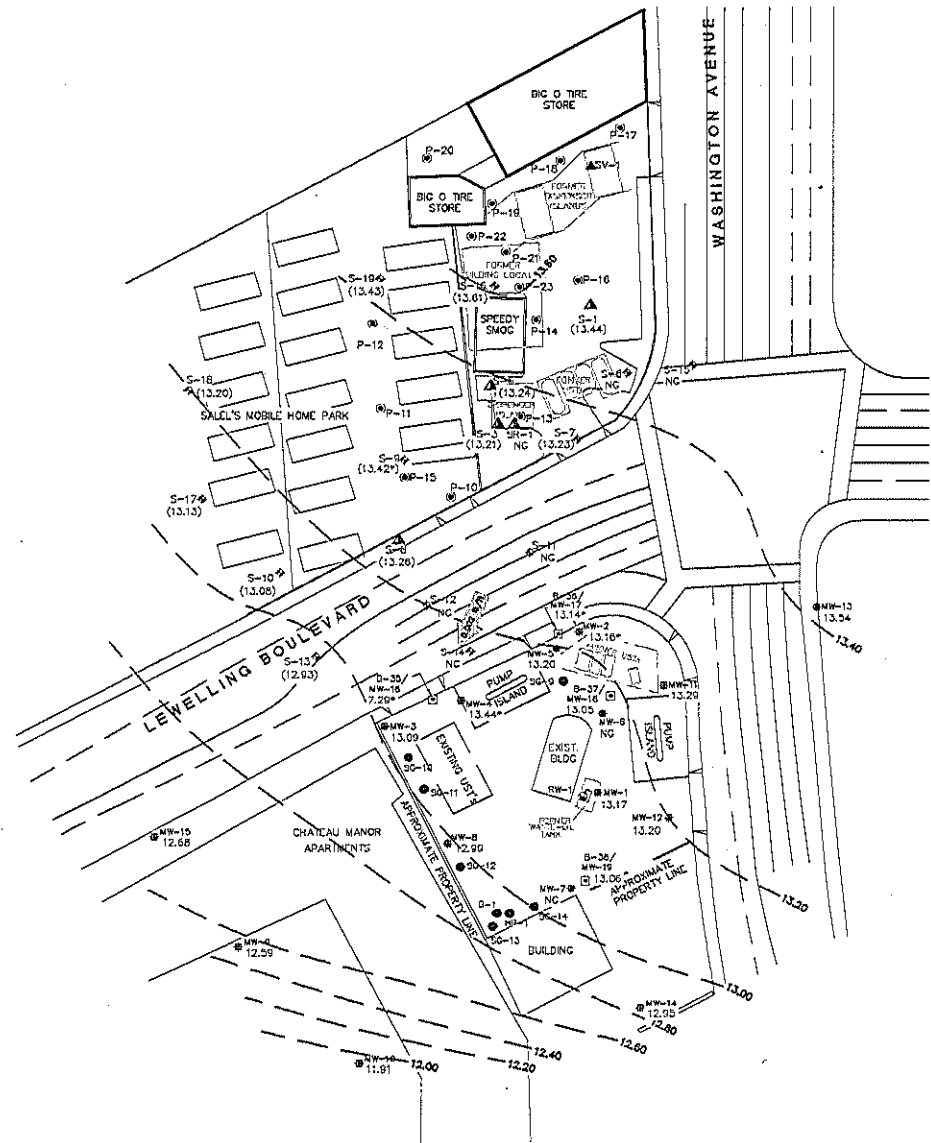
FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
1/12/2010
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA152751A

APPROVED BY

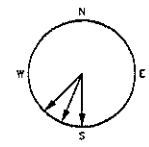
CHECKED BY 9/7/2009

DRAWN BY J.F.F. SCALE: N. FEET



- LEGEND**
- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-16 SOIL VAPOR SAMPLE LOCATION
 - MW-1 GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
 - B-36/MW-19 SOIL BORING/GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
 - B-1 SOIL GAS BORING/TEMPORARY VAPOR INFILTRATION LOCATION (ARCO STATION)
 - RW-1 SOIL VAPOR EXTRACTION WELL LOCATION (ARCO STATION)
 - (14.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (ft/MSL)
 - 14.00 GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (ft/MSL)
CONTOUR INTERVAL=0.20 FEET
 - APPROXIMATE GROUNDWATER DIRECTION
 - NC NOT GAUGED
 - NOT USED IN CONTOURING ANOMALOUS DATA
- NOTES**
- ARCO STATION GROUNDWATER ELEVATION ADJUSTED BY 2.7 FEET

HISTORICAL GROUNDWATER FLOW DIRECTIONS



DATE	FLOW
1/22/2004	SW
1/27/2006	SW,SSW
7/25/2006	SW,SSW
1/4/2007	SW
7/24/2007	SSW
1/15/2008	S
8/4/2008	S,SSW
1/8/2009	SW
7/21/2009	SW

DELTA CONSULTANTS

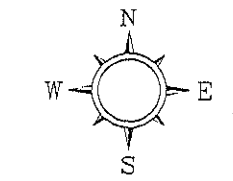
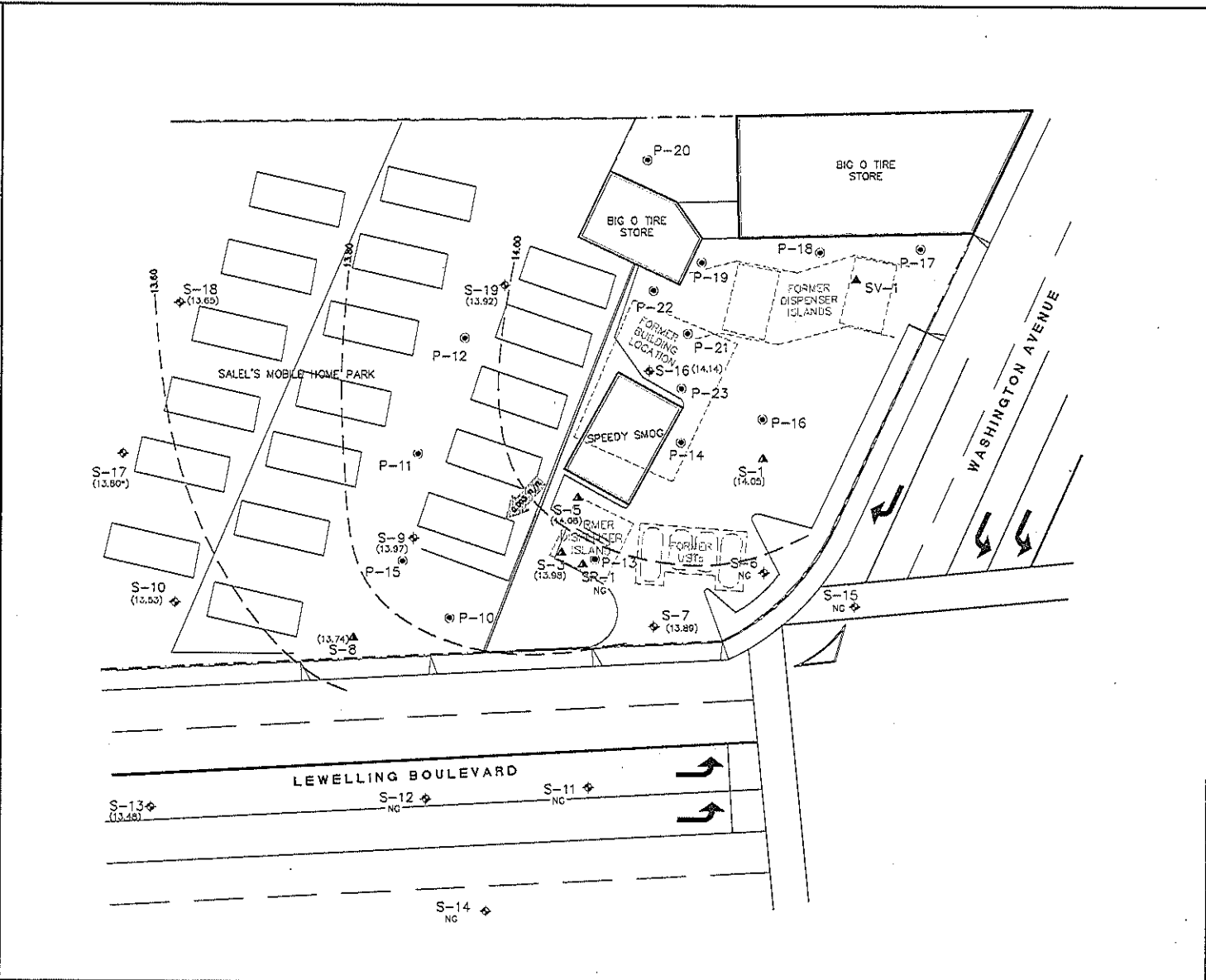
SHELL OIL PRODUCTS
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
7/21/2009

15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA152751A
 APPROVED BY _____
 CHECKED BY _____
 DRAWN BY J.F.F. 2/9/2009

0 20 40
 SCALE IN FEET



- LEGEND**
- S-6 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 ▲ GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 ▲ SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-18 ● SOIL VAPOR SAMPLE LOCATIONS
 - (14.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FL/MSL)
 - 14.00 --- GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (FL/MSL) CONTOUR INTERVAL=0.20 FEET
 - ← APPROXIMATE GROUNDWATER DIRECTION
 - NC NOT GAUGED
 - NOT USED IN CONTOURING ANOMALOUS DATA

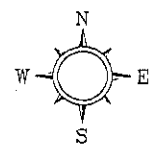
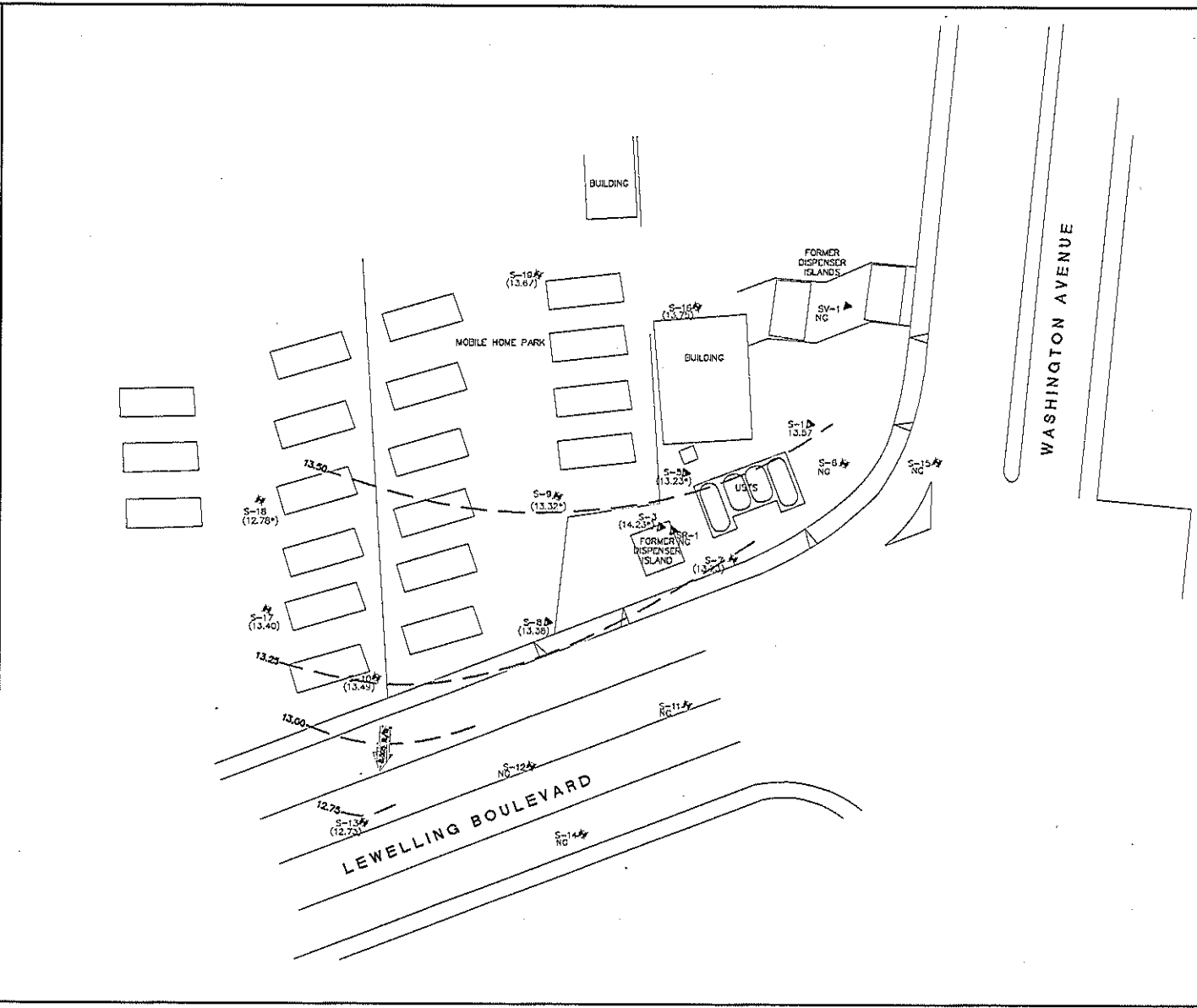
DELTA CONSULTANTS

SHELL OIL PRODUCTS
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 2
GROUNDWATER ELEVATION CONTOUR
MAP
 1/8/2009
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

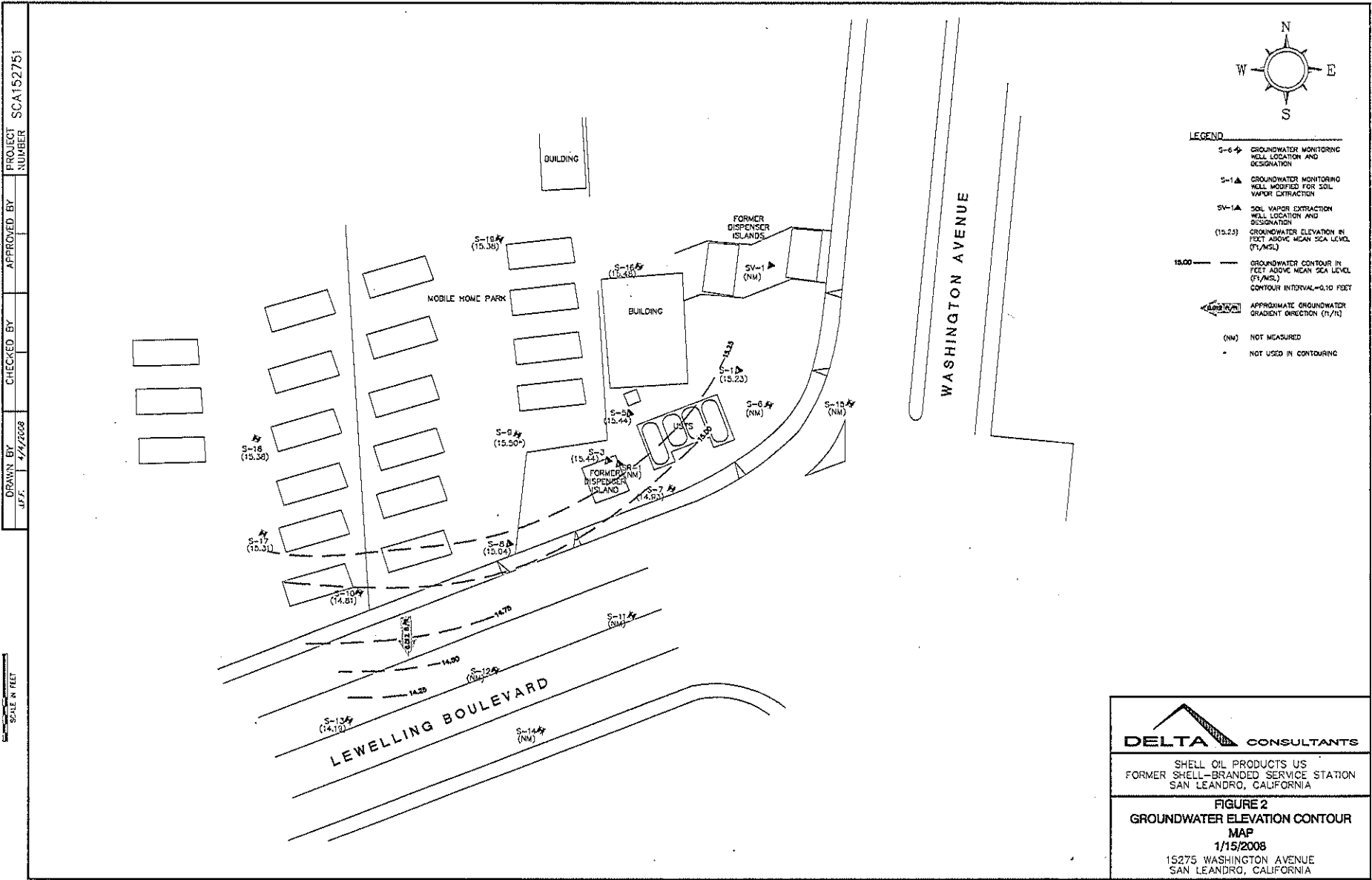
DRAWN BY: J.F.F. / 8/27/2008
 CHECKED BY:
 APPROVED BY:
 PROJECT NUMBER: SCA152751

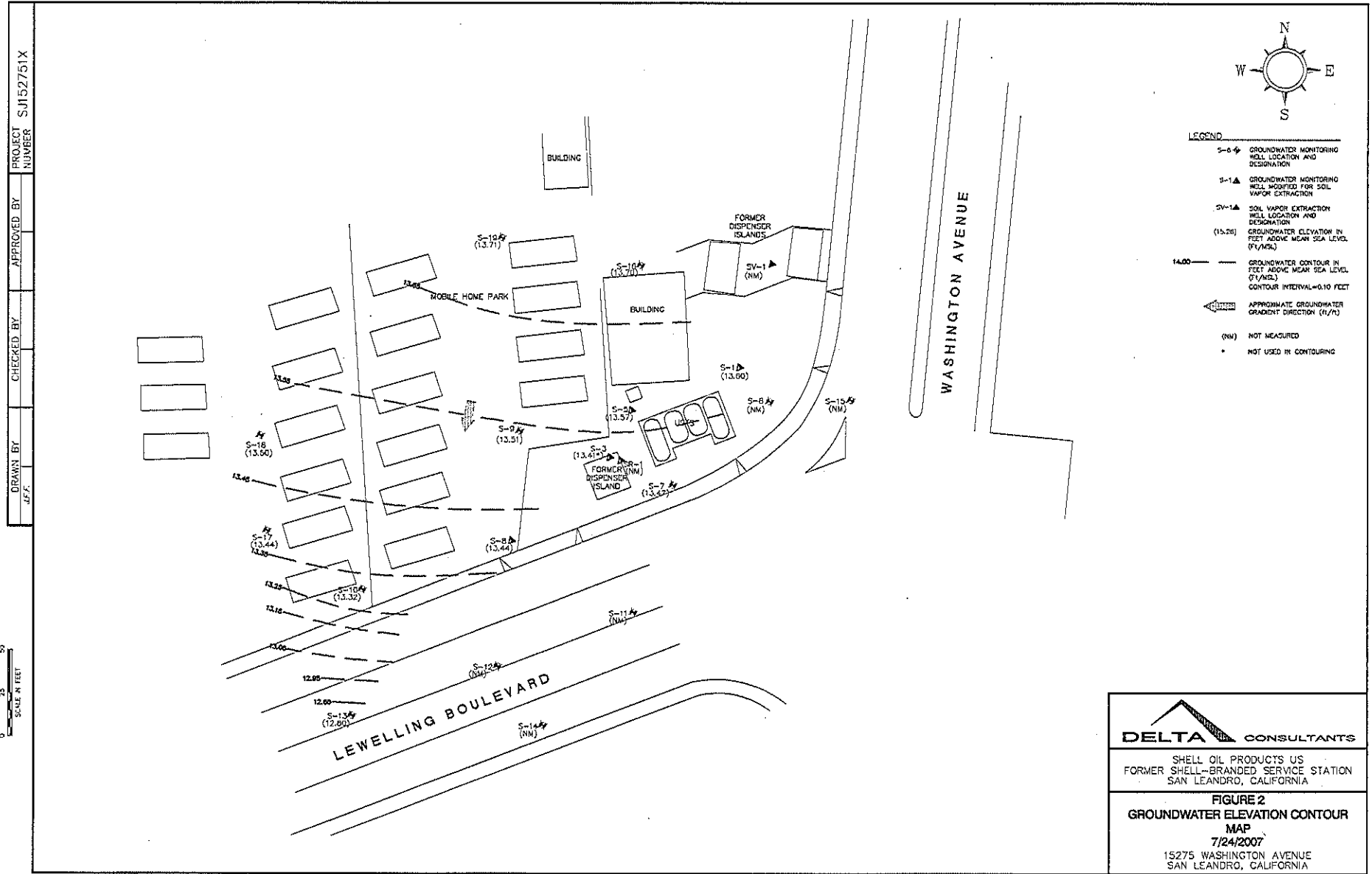
SCALE IN FEET
 0 25 50



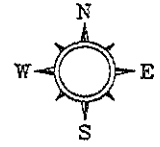
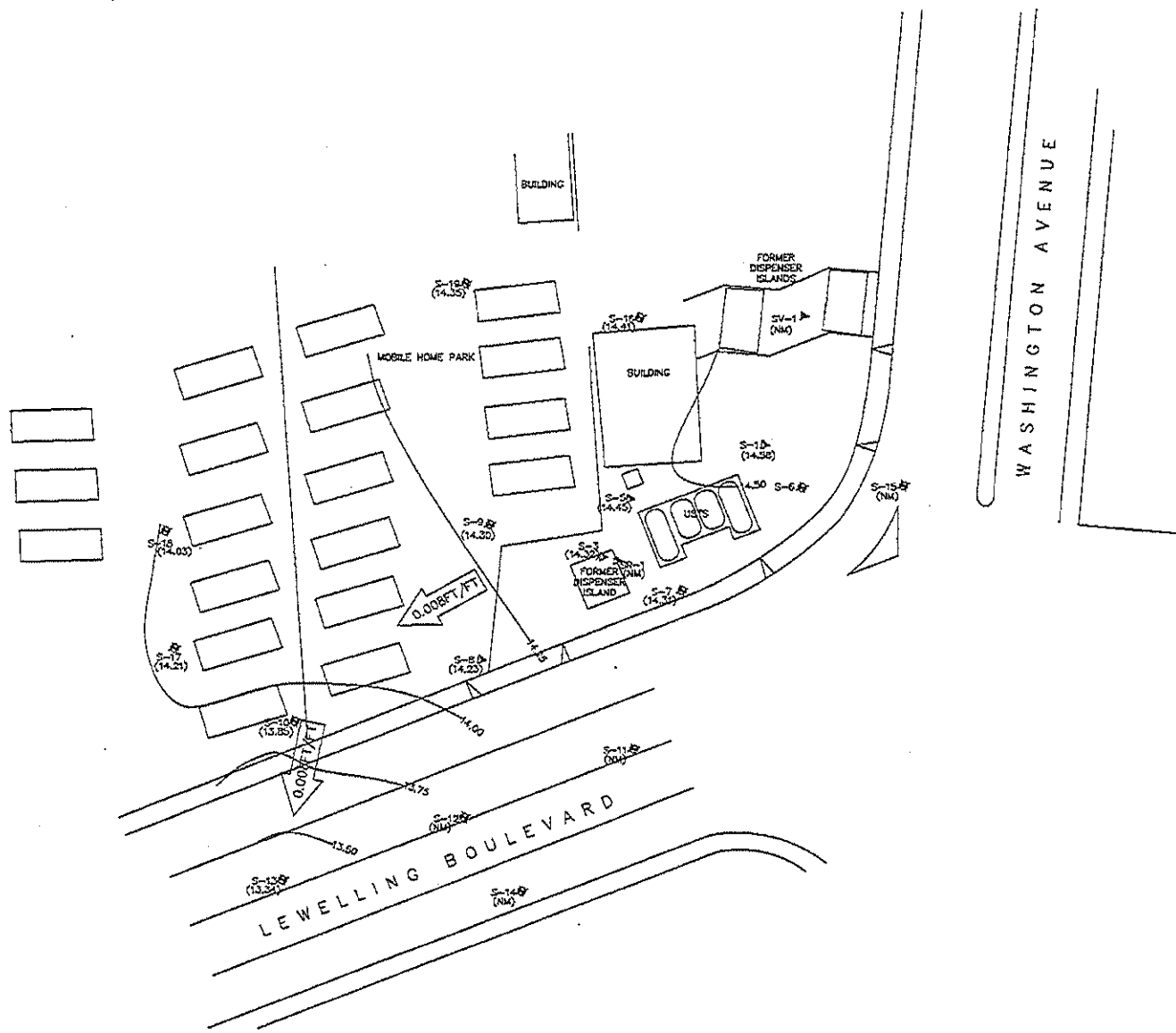
- LEGEND
- S-6 (Symbol) GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 (Symbol) GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1A (Symbol) SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - (15.23) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
 - 13.00 (Symbol) GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
 - (Symbol) CONTOUR INTERVAL = 0.25 FEET
 - (Symbol) APPROXIMATE GROUNDWATER GRADIENT DIRECTION (1/17)
 - * NOT USED IN CONTOURING
 - NG NOT DAUGED

DELTA CONSULTANTS
 SHELL OIL PRODUCTS US
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA
FIGURE 2
GROUNDWATER ELEVATION CONTOUR
MAP
 8/4/2008
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

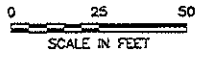





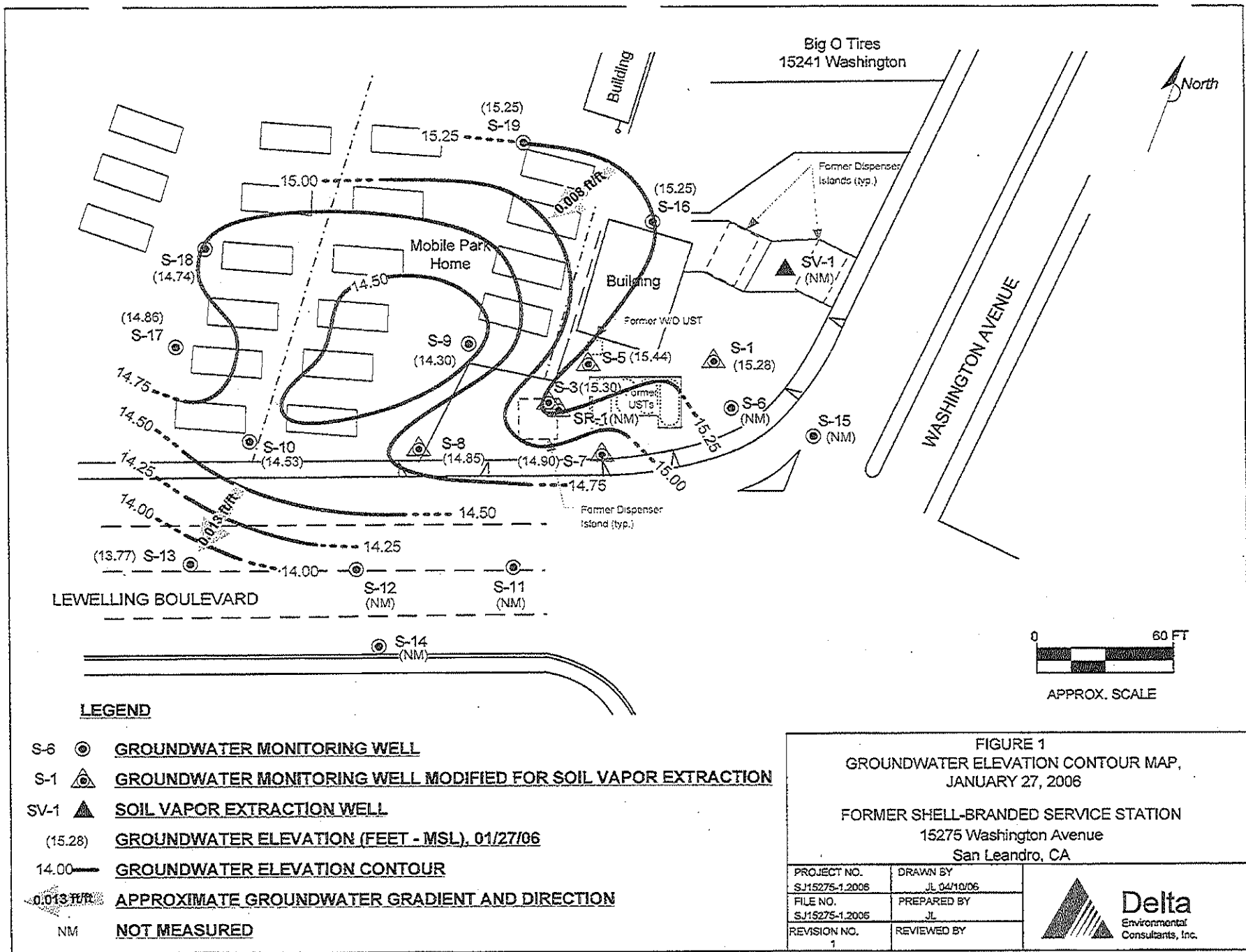
DRAWN BY: 1/10/07 AD
 CHECKED BY: 4/10/07 AP
 APPROVED BY: 4/10/07 AR
 PROJECT NUMBER: SJ152-75W-1



- LEGEND**
- S-6: GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-10: GROUNDWATER MONITORING WELL LOCATED FOR SOIL VAPOR EXTRACTION
 - SV-1A: SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - (14.22): GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (1/1/02)
 - 14.00: GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (1/1/02)
 - 0.008 FT/FT: APPROXIMATE GROUNDWATER GRADIENT DIRECTION (1/1/02)
 - (NM): NOT MEASURED




DELTA CONSULTANTS
 SHELL OIL PRODUCTS U.S.
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA
 FIGURE 1
 GROUNDWATER ELEVATION CONTOUR MAP
 JANUARY 4, 2007
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA



LEGEND

- S-6 **GROUNDWATER MONITORING WELL**
- S-1 **GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION**
- SV-1 **SOIL VAPOR EXTRACTION WELL**
- (15.28) **GROUNDWATER ELEVATION (FEET - MSL), 01/27/06**
- 14.00 **GROUNDWATER ELEVATION CONTOUR**
- APPROXIMATE GROUNDWATER GRADIENT AND DIRECTION**
- NM **NOT MEASURED**

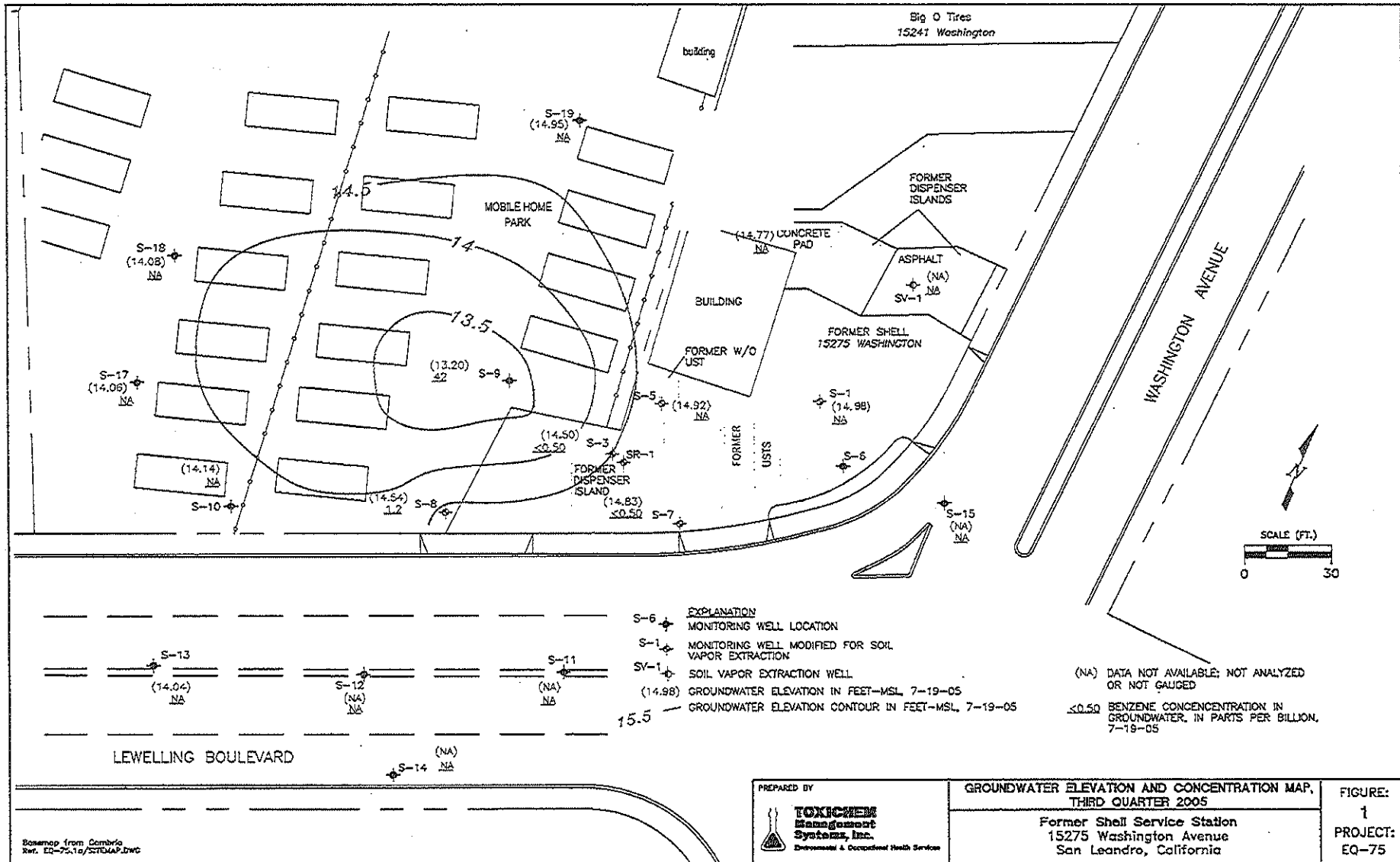


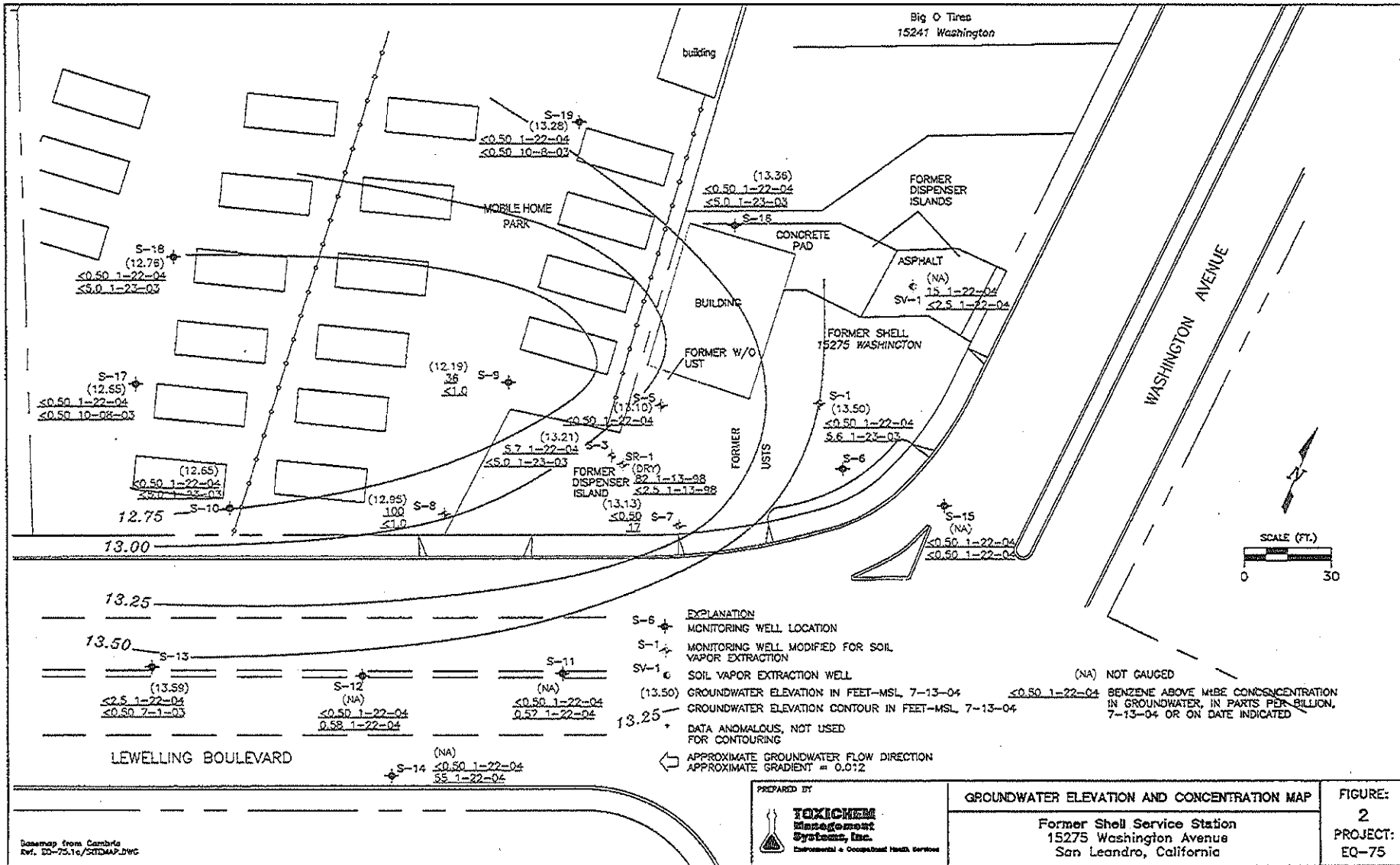
FIGURE 1
GROUNDWATER ELEVATION CONTOUR MAP,
JANUARY 27, 2006

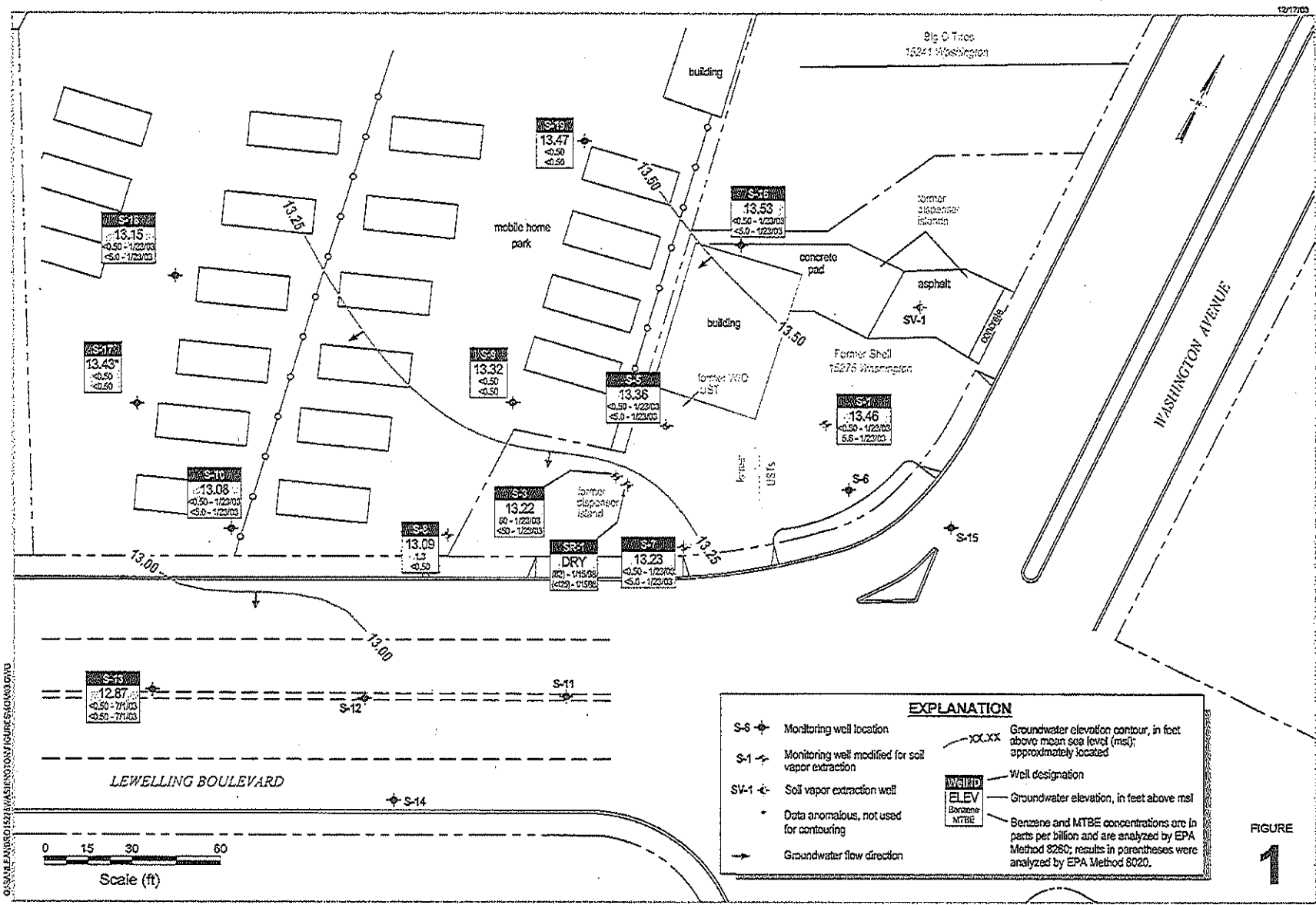
FORMER SHELL-BRANDED SERVICE STATION
15275 Washington Avenue
San Leandro, CA

PROJECT NO. SJ15275-1.2006	DRAWN BY JL 04/10/06
FILE NO. SJ15275-1.2006	PREPARED BY JL
REVISION NO. 1	REVIEWED BY

Delta
Environmental
Consultants, Inc.







Groundwater Elevation Contour Map

October 8, 2003



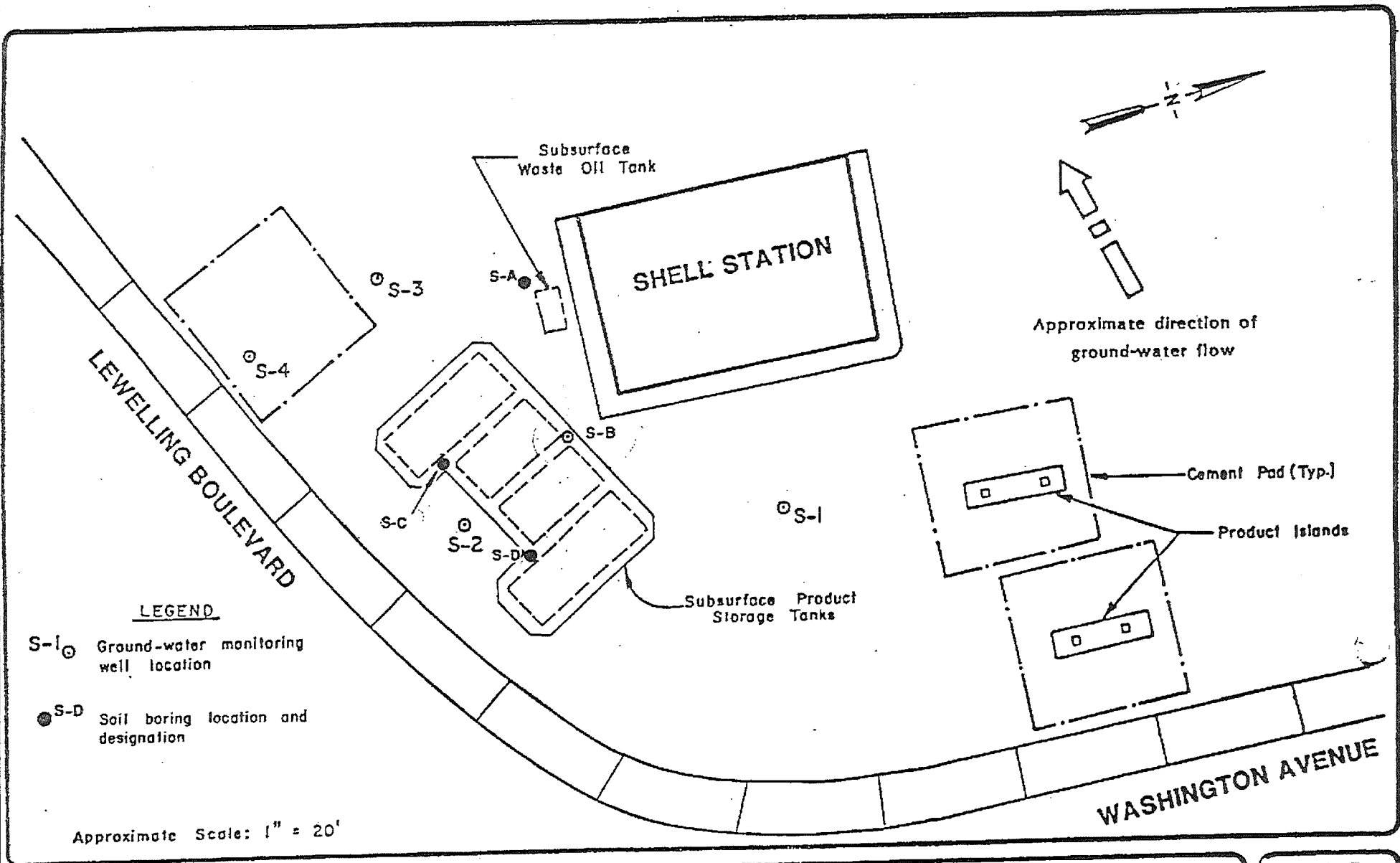
CAMBRIDGE

Former Shell Service Station

16275 Washington Avenue
 San Leandro, California
 Incident #97068270

FIGURE 1

APPENDIX E
SOIL ANALYTICAL DATA



Approximate Scale: 1" = 20'



EMCON
Associates
San Jose, California

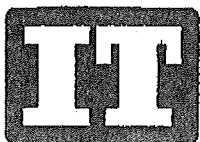
GETTLER-RYAN, INC.
SUBSURFACE HYDROGEOLOGIC INVESTIGATION
SHELL STATION, LEWELLING BLVD & WASHINGTON AVE.
SAN LEANDRO, CALIFORNIA

SITE PLAN

FIGURE

1

PROJECT NO.
738-08.02



July 23, 1985

Emcon Associates
90 Archer Street
San Jose, CA 95112

Reference: Shell Purchase Order MOH050908

ATTN: Erin Garner

Following are the results of our analyses for the presence of volatile hydrocarbons due to gasoline in three samples of soil received on June 27, 1985.

The samples were examined using the purge and trap technique. Final detection was by gas chromatography using a flame ionization detector as well as a photoionization detector and a Carbopack B/3% SP-1500 column.

Lab. #	Sample Identification	Results			
		Parts per Million (dry soil basis)			
		Volatile Hydrocarbons Due to Gasoline (includes benzene, toluene and xylenes)	Benzene	Toluene	Xylene isomers and ethyl benzene
29747	S-2 @ 7 - 8.5'	nd	nd	nd	nd
29748	S-3 @ 5 - 6.5'	1,900.	6.	170.	840.
29749	S-4 @ 5 - 6.5'	1,100.	nd*	18.	530.
Detection Limits		2.	0.1 10.*	0.1	0.4

Patricia L. Murphy
Patricia L. Murphy

PLM/jd

cc: Stan Roller
Shell Oil Company

TABLE 1

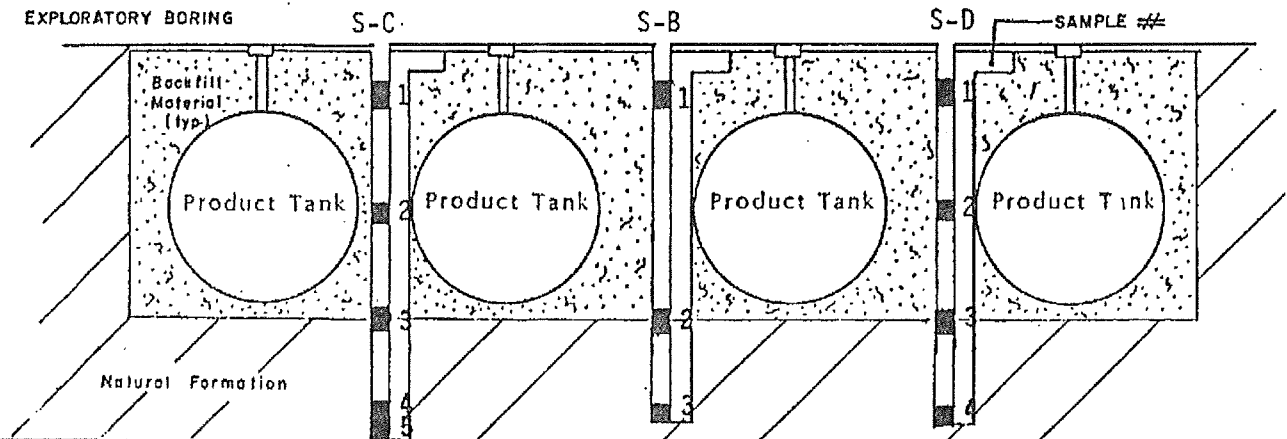
Sample Identification	Depth Interval (in feet)	Gasoline Concentration (parts per million)
S-B	3-1/2 to 5	1,700
	11 to 12-1/2	1,500
	14 to 15-1/2	<5
S-C	3-1/2 to 5	310
	7-1/2 to 9	<200
	11-1/2 to 13	<5
	14 to 15-1/2	300
	15-1/2 to 17	<5
S-D	3-1/2 to 5	<100
	7 to 8-1/2	<5
	11 to 12-1/2	<5
	14 to 15-1/2	<5



GETTLER-RYAN, INC.

GENERALIZED PROFILE OF SUBSURFACE TANK COMPLEX
AND GASOLINE CONCENTRATIONS WITHIN BACKFILL MATERIAL

PROJECT NUMBER 738-08.02 MAPVIEW DIMENSIONS 27' x 42'
 PROJECT NAME G-R Shell, San Leandro APPROXIMATE DEPTH 12 feet
 NUMBER OF TANKS IN COMPLEX 4



SAMPLE #	BORING	DEPTH INTERVAL	GASOLINE CONCENTRATION (parts per million)
1	S-B	3-1/2 to 5	1,700
2	S-B	11 to 12-1/2	1,500
3	S-B	14 to 15-1/2	nd*
1	S-C	3-1/2 to 5	310
2	S-C	7-1/2 to 9	nd ¹
3	S-C	11-1/2 to 13	nd*
4	S-C	14 to 15-1/2	300
5	S-C	15-1/2 to 17	nd*
1	S-D	3-1/2 to 5	nd ²
2	S-D	7 to 8-1/2	nd*
3	S-D	11 to 12-1/2	nd*
4	S-D	14 to 15-1/2	nd*

nd = no detection.

* Detection limit = 5 parts per million.

¹ Detection limit = 200 ppm due to matrix interferences.

² Detection limit = 100 ppm due to matrix interferences.

EMCON ASSOCIATES • CHEMICAL LABORATORIES

Analysis • Consultation • Research • Environmental Studies
State Approved Water Laboratory



CERTIFIED ANALYTICAL REPORT

Report to:

Gettler Ryan
1992 National Ave
Hayward, CA 94545

Project Number: 738-08.02

Location: SAN LEANDRO

Sample Type: SOIL
Units: mg/kg

Sample Designation:	SB-3.5-5	SB-11-12.5	SB-14-15.5	SC-3.5-5
Field Date:	08/15/86	08/15/86	08/15/86	08/15/86
Laboratory Number:	E86-0751	E86-0751	E86-0751	E86-0751

Benzene	1.0	5.6	<0.05	<0.5
Toluene	11	37	<0.1	<1
Xylenes and Ethylbenzene	97	130	<0.8	24
Volatile Hydrocarbons due to Gasoline	1700	1500	<5	310

Sample Designation:	SC-7.5-9	SC-11.5-13	SC-14-15.5	SC-15.5-17
Field Date:	08/15/86	08/15/86	08/15/86	08/15/86
Laboratory Number:	E86-0751	E86-0751	E86-0751	E86-0751

Benzene	<0.2 *	<0.05	1.6	<0.05
Toluene	<0.4 *	<0.1	5.1	<0.1
Xylenes and Ethylbenzene	<1.6 *	<0.4	28	<0.4
Volatile Hydrocarbons due to Gasoline	<200 *	<5	300	<5

Sample Designation:	SD-3.5-5	SD-7-8.5	SD-11-12.5	SD-14-15.5
Field Date:	08/15/86	08/15/86	08/15/86	08/15/86
Laboratory Number:	E86-0751	E86-0751	E86-0751	E86-0751

Benzene	<0.1 *	<0.05	0.11	<0.05
Toluene	<0.2 *	<0.1	<0.1	<0.1
Xylenes and Ethylbenzene	<0.8 *	<0.4	<0.4	<0.4
Volatile Hydrocarbons due to Gasoline	<100 *	<5	<5	<5

* Detection limit elevated due to sample matrix interference.

Page 1

Reported by: *Philip Murphy*

Date: 9-10-86

1921 RINGWOOD AVENUE, SAN JOSE, CALIFORNIA 95131

TELEPHONE (408) 275-1444

These results were obtained by following standard laboratory procedures; the liability of the corporation shall not exceed the amount paid for this report.

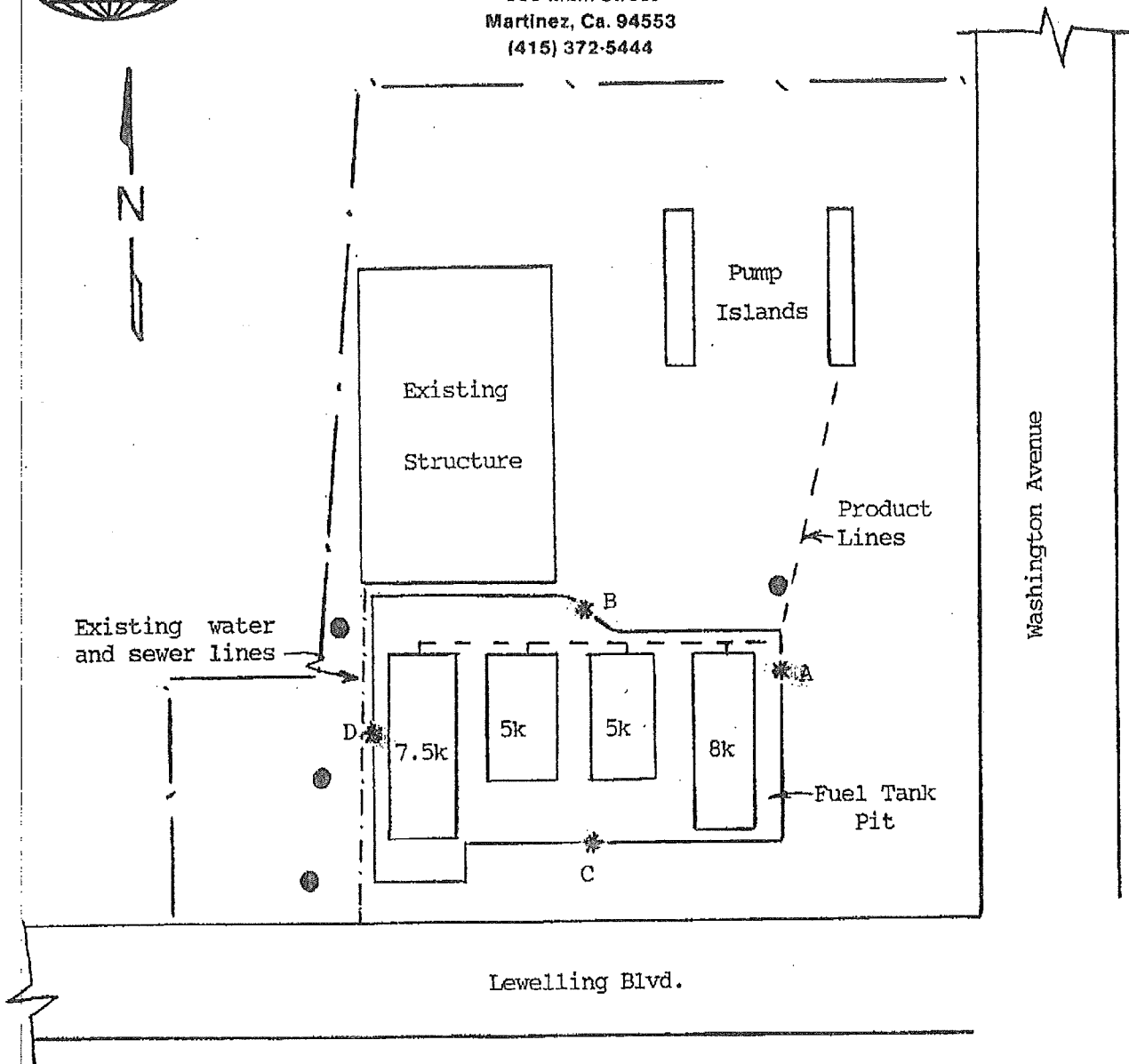


KAPREALIAN ENGINEERING, INC.

Consulting Engineers

535 Main Street
Martinez, Ca. 94553

(415) 372-5444



LOCATION PLAN

(not to scale)

- Existing monitoring well
- * soil sample location

SHELL SERVICE STATION
13275 Washington Avenue
San Leandro, CA



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060803

Sample Description

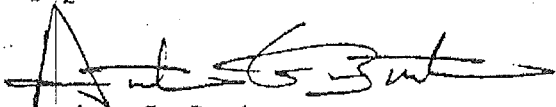
Soil A
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

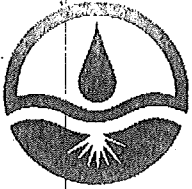
	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	1.0
Benzene	0.1	< 0.1
Toluene	0.1	< 0.1
Xylenes	0.1	< 0.1

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060804

Sample Description


Well B
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

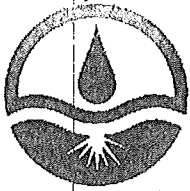
	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	74
Benzene	0.1	2.5
Toluene	0.1	1.1
Xylenes	0.1	3.7

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060805

Sample Description


Soil C
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

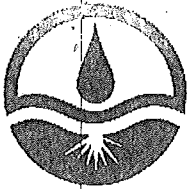
	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	31
Benzene	0.1	< 0.1
Toluene	0.1	0.69
Xylenes	0.1	1.2

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY


Arthur G. Burton
Laboratory Director

jao



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 06-11-87
Date Received: 06-11-87
Date Reported: 06-22-87

Sample Number

7060806

Sample Description

Soil D
Shell at Washington Avenue
in San Leandro, CA

ANALYSIS

	<u>Detection Limit</u> ppm	<u>Sample Results</u> ppm
Total Hydrocarbons as Gasoline	1	910
Benzene	0.1	7.4
Toluene	0.1	43
Xylenes	0.1	43

NOTE: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

jao

TABLE -1
SUMMARY OF LABORATORY ANALYSES
(all results in parts per million)

<u>Sample Number</u>	<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>
S-1	10-13-87	260	10	0.2	3.0
S-2		100	5.7	2.9	52
S-3		730	3.9	1.0	79
A-1*	11-16-87	950	21	1.4	17
Comp Q	9-03-87	850	5.1	14	33
Comp A*	11-25-87	1.3	<0.1	<0.1	0.2
Comp B*		1.5	<0.1	<0.1	0.4

* A-1 Ethylbenzene = 35 ppm
Comp A Ethylbenzene <0.1 ppm
Comp B Ethylbenzene <0.1 ppm



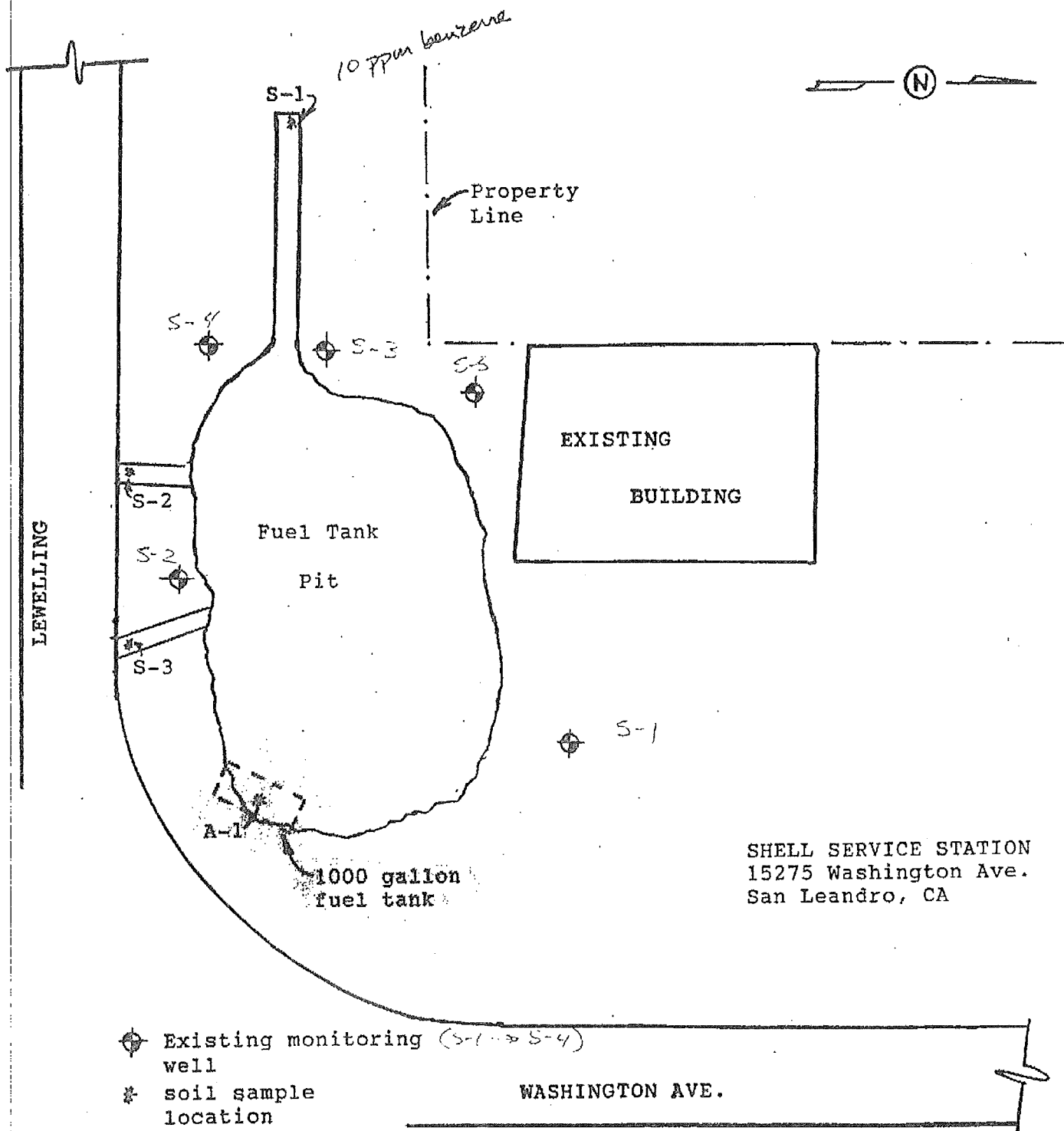
KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-8100 (707) 746-8915



SHELL SERVICE STATION
15275 Washington Ave.
San Leandro, CA

- ⊕ Existing monitoring (S-1 to S-4) well
- * soil sample location

WASHINGTON AVE.

SITE PLAN

1" = 20 ft.

TABLE 2

SOIL SAMPLE ANALYSIS DATA							
BORING NO	SAMPLE DATE	ANALYSIS DATE	TPH (PPM)	BENZENE (PPM)	ETHYLBENZENE (PPM)	TOLUENE (PPM)	XYLENES (PPM)
S-13-5'	26-Apr-89	02-May-89	31.	0.19	0.6	0.2	0.3
S-14-5'	26-Apr-89	02-May-89	16.	0.33	0.3	0.1	1.6
S-15-5'	26-Apr-89	02-May-89	ND	ND	ND	ND	ND
S-16-5'	25-Apr-89	02-May-89	1,100.	3.	24.	12.	110.
S-17-5'	25-Apr-89	02-May-89	13.	ND	ND	ND	ND

TPH = Total Petroleum Hydrocarbons as Gasoline

PPM = parts per million

ND = None Detected

Note: 1. For chemical parameter detection limits, refer to I.T. laboratory reports i

Company: Shell Oil Company

Date: 06/04/91

Client Work ID: GR7615, 15275 Wash., S.Lndro

Work Order: T1-05-186

TEST NAME: Petroleum Hydrocarbons

SAMPLE ID: SP-18

SAMPLE DATE: 05/16/91

LAB SAMPLE ID: T105186-01

SAMPLE MATRIX: solid

RECEIPT CONDITION: cool

RESULTS in Milligrams per Kilogram:

	METHOD	EXTRACTION DATE	ANALYSIS DATE
BTEX	8020	05/28/91	05/30/91
Low Boiling Hydrocarbons	Mod.8015	05/28/91	05/30/91

PARAMETER	DETECTION LIMIT	DETECTED
Low Boiling Hydrocarbons calculated as Gasoline	1.0	None
BTEX		
Benzene	0.005	None
Toluene	0.005	0.007
Ethylbenzene	0.005	None
Xylenes (total)	0.005	None

SURROGATES	% REC
1,3-Dichlorobenzene (Gasoline)	130.
1,3-Dichlorobenzene (BTEX)	122.

Gottler - Ryan Inc.

1 150 2 10 1

ENVIRONMENTAL DIVISION

Chain of Custody

COMPANY Shell Oil Company

JOB NO. 761502

JOB LOCATION 15275 Washington (Wicif 204-6852-1008) BNG Sect

CITY San Leandro PHONE NO. Brazoria

AUTHORIZED John Werfel

DATE 5/16/91

P.O. NO.

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
<u>518-45</u>	<u>1</u>	<u>soil</u>	<u>5/16/91</u>	<u>PH-bas, B.T.E.X.</u>	

RELINQUISHED BY: [Signature] 5/17/91 0745

RECEIVED BY: [Signature] 5/19/91 0745

RELINQUISHED BY: [Signature] 5/17/91 1630

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY LAB: _____

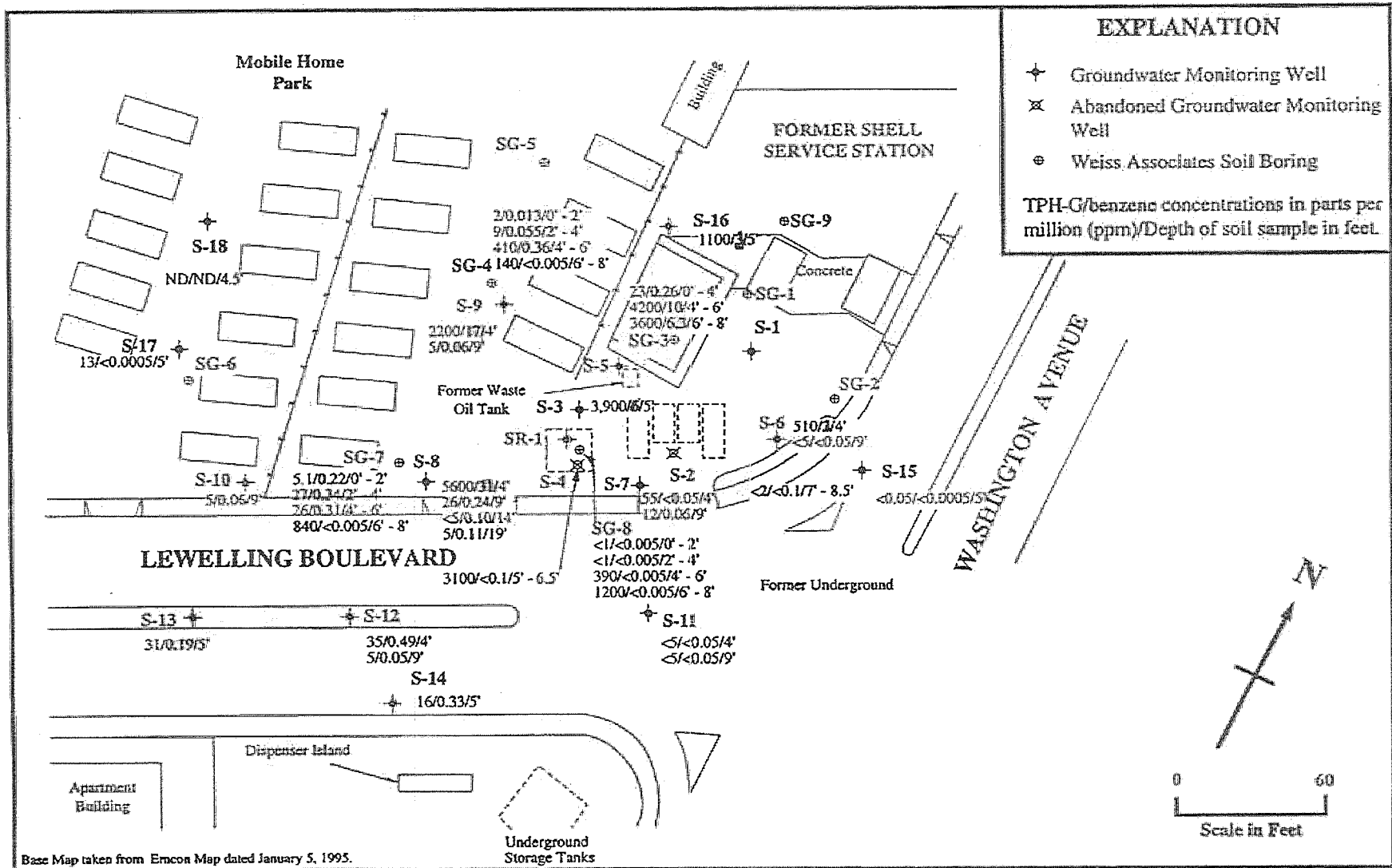
DESIGNATED LABORATORY: ITAS

DHS #: 137

REMARKS: STANDARD TURN AROUND

DATE COMPLETED 5/16/91

FOREMAN _____



Base Map taken from Emcon Map dated January 5, 1995.

PLATE 3 SOIL QUALITY MAP
 Shell Oil Company
 15275 Washington Avenue
 San Leandro, California

enviros
 95276.01

Drawn By: DML Date: 6-19-97

Approved By: [Signature] Date: 6-25-97

Table 4. Sequoia Analytical Soil Data
Former Shell Service Station, WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Date sampled	Date Analyzed	TPH (C ₁ as gas)	Benzene	Toluene	Ethylbenzene	Total Xylene	Chromatogram Pattern
Soil Data									
TPPH w/ BETX (8015 Mod/8020, µg/kg)									
SG-03-0-4 ft	0-4 ft	5/5/97	5/14/97	23,000	260	110	210	410	Gas/UH
SG-03-4-6 ft	4-6 ft	5/5/97	5/14/97	4,200,000	10,000	3,700	52,000	220,000	Gas
SG-03-6-8 ft	6-8 ft	5/5/97	5/14/97	3,600,000	6,300	5,900	47,000	190,000	Gas
SG-04-0-2 ft	0-2 ft	5/5/97	5/14/97	2,000	13	< 5	21	67	Gas
SG-04-2-4 ft	2-4 ft	5/5/97	5/14/97	9,000	55	23	150	470	Gas
SG-04-4-6 ft	4-6 ft	5/5/97	5/14/97	410,000	360	750	720	1,200	Gas/UH
SG-04-6-8 ft	6-8 ft	5/5/97	5/14/97	140,000	< 5	270	810	1,400	Gas
SG-07-0-2 ft	0-2 ft	5/6/97	5/15/97	5,100	220	77	670	170	Gas
SG-07-2-4 ft	2-4 ft	5/6/97	5/14/97	27,000	340	87	1,100	180	Gas
SG-07-4-6 ft	4-6 ft	5/6/97	5/15/97	26,000	310	< 5	660	120	Gas
SG-07-6-8 ft	6-8 ft	5/6/97	5/14/97	840,000	< 5	3,000	12,000	< 5	Gas
SG-08-0-2 ft	0-2 ft	5/6/97	5/14/97	< 1,000	< 5	< 5	< 5	< 5	NA
SG-08-2-4 ft	2-4 ft	5/6/97	5/14/97	< 1,000	< 5	< 5	< 5	6.6	Gas
SG-08-4-6 ft	4-6 ft	5/6/97	5/15/97	390,000	< 5	< 5	< 5	3,100	Gas/UH
SG-08-6-8 ft	6-8 ft	5/6/97	5/14/97	1,200,000	< 5	< 5	8,500	14,000	Gas

Fraction Organic Carbon (8)	Moisture (%)	Dry Bulk Density (g/cc)	Wet Bulk Density (g/cc)	Calculated from Dry Bulk Density	Grain Density - Assumed
Other laboratory Analyses					
1.3%	7%	1.8	1.9	2.65	0.32
0.37%	15%	2.0	2.3	2.65	0.25
0.30%	17%	2.1	2.5	2.65	0.21
3.4%	1%	1.9	1.9	2.65	0.28
1.2%	20%	2.0	2.4	2.65	0.25
0.38%	19%	2.1	2.5	2.65	0.21
2.8%	21%	2.1	2.5	2.65	0.21
0.65%	3%	2.1	2.2	2.65	0.21
0.68%	21%	1.8	2.2	2.65	0.32
0.33%	25%	2.0	2.5	2.65	0.25
0.28%	20%	2.2	2.6	2.65	0.17
0.88%	15%	2.1	2.4	2.65	0.21
0.82%	16%	1.7	2.0	2.65	0.36
0.52%	25%	1.9	2.4	2.65	0.28
0.26%	19%	2.1	2.5	2.65	0.21

Total Porosity	Water filled Porosity	Air filled Porosity
0.32	0.05	0.27
0.25	0.04	0.21
0.21	0.03	0.17
0.28	0.05	0.24
0.25	0.04	0.21
0.21	0.03	0.17
0.21	0.03	0.17
0.21	0.03	0.17
0.32	0.05	0.27
0.25	0.04	0.21
0.17	0.03	0.14
0.21	0.03	0.17
0.36	0.05	0.30
0.28	0.05	0.24
0.21	0.03	0.17

Comments
0-4' Gravel (GP), 4"-4' Sand & Gravel (SW) fill, slight odor
4'-6' Moist Clayey Silt w/ Gravel, slight odor
6'-8' Silty Sand, less moist, slight odor
0-6' Gravel, Asphalt, 6"-2' Clayey Sand, no odor
2'-4' Clayey Silt, no odor
4'-6' Clayey Silt, slight odor
6'-7' Clayey Sand, moist, slight odor, 7'-8' Clayey Silt, no odor
0-4' Asphalt, 4"-2' Clayey Silt, slight odor
2'-4' Clayey Silt, slight odor
4'-6' Clayey Silt, strong odor
6'-8' Clayey Sand, strong odor
0-4' Asphalt, 4"-2' Mottled Clayey Sand & Gravel, Wood frag. at 2', no odor
2'-4' Clayey Sand, no odor
4'-6' Silty Sand, strong odor
6'-8' Silty Sand, strong odor

Averages 724,940 1,193 925 8,257 28,742
Notes: < - Below the method detection limit.
Chromatogram Pattern: Gas = Gasoline
Gas/UH = Gasoline & Unidentified Hydrocarbons >C8

TABLE 4
 SOIL ANALYTICAL DATA
 Shell Oil Products Company
 15275 Washington Avenue
 San Leandro, CA
 WIC# 204-6852-1008

Sample Depth (ft)	Date Sampled	TPPH (mg/Kg)	B (mg/Kg)	T (mg/kg)	E (mg/Kg)	X (mg/Kg)	MTBE (mg/Kg)	Primary Soil Type (Unified Soil Class)	Comments
SG-10-4									
4	31-Jul-97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	SM	
SG-11-4									
4	31-Jul-97	30	0.11	0.15	0.76	0.27	0.67	CL	
SG-12-4									
4	31-Jul-97	6.8	<0.0050	0.018	0.014	0.065	<0.025	CL	
SG-13-4									
4	31-Jul-97	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	CL	

Abbreviations:

<x = Not detected at detection limit of x



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: John Riggl	Client Proj. ID: Shell 15275 Washington Sample Descript: S-19(5') Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9808051-01	Sampled: 07/31/98 Received: 07/31/98 Extracted: 08/06/98 Analyzed: 08/12/98 Reported: 08/19/98
--	--	--

QC Batch Number: GC080698BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	12
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		>C8
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 15275 Washington Sample Descript: S-19(10') Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9808051-02	Sampled: 07/31/98 Received: 07/31/98 Extracted: 08/07/98 Analyzed: 08/10/98 Reported: 08/19/98
Attention: John Riggi		

QC Batch Number: GC080798BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	11
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	0.0099
Xylenes (Total)	0.0050	0.012
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	80
4-Bromofluorobenzene	60 140	119

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 15275 Washington Sample Descript: S-19(15') Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9808051-03	Sampled: 07/31/98 Received: 07/31/98 Extracted: 08/07/98 Analyzed: 08/12/98 Reported: 08/19/98
Attention: John Riggi		

QC Batch Number: GC080798BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	75
4-Bromofluorobenzene	60	140
		88

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 938-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: John Riggl	Client Proj. ID: Shell 15275 Washington Sample Descript: S-19(20') Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9808051-04	Sampled: 07/31/98 Received: 07/31/98 Extracted: 08/06/98 Analyzed: 08/06/98 Reported: 08/19/98
--	---	--

QC Batch Number: GC080698BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	75
4-Bromofluorobenzene	60 140	135

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager



TABLE 1
SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS
Former Shell-Branded Service Station
15275 Washington Avenue, San Leandro, California

Sample Location	Sample			TPH-g (mg/kg)	DRO (mg/kg)	TPH-mo (mg/kg)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes (mg/kg)
	Name	Depth (feet)	Date							
Analytical Method:				EPA 8260B	EPA 8015B	EPA 8015B Mod.	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Residential ESL ² , non-drinking water (Shallow/Deep)				100 / 180	100 / 180	370 / 5,000	0.12 / 2.0	2.3 / 4.7	9.3 / 9.3	11 / 11
Residential ESL ¹ , potential drinking water (Shallow/Deep)				83 / 83	83 / 83	370 / 5,000	0.044 / 0.044	2.3 / 3.3	2.9 / 2.9	2.3 / 2.3
SB-1	SB-1@16'	16	06/21/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-2	SB-2@12'	12	06/21/10	0.53	31*	100	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-2@50'	50	06/21/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-3	SB-3@16'	16	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-3@50'	50	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-4	SB-4@8'	8	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-4@12'	12	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-5	SB-5@8'	8	06/22/10	ND< 0.5	110*	320	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-5@12'	12	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-6	SB-6@8'	8	06/22/10	3.7	ND< 5	ND< 25	ND< 0.005	0.0061	ND< 0.005	ND< 0.005
	SB-6@12'	12	06/22/10	0.95	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-7	SB-7@10'	10	06/21/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-7@14'	14	06/21/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-8	SB-8@6'	6	06/21/10	280	13*	ND< 25	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5
	SB-8@14'	14	06/21/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-9	SB-9@8'	8	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-9@12'	12	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-10	SB-10@12'	12	06/21/10	ND< 50	ND< 5	ND< 25	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5
	SB-10@16'	16	06/21/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-11	SB-11@8'	8	06/22/10	70	7.3*	ND< 25	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5
	SB-11@24'	24	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-12	SB-12@8'	8	06/22/10	1,100	ND< 5	ND< 25	ND< 2	ND< 2	ND< 2	ND< 2
	SB-12@12'	12	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-13	SB-13@10'	10	06/22/10	1.8	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
	SB-13@12'	12	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005
SB-14	SB-14@6'	6	06/22/10	290	9.1*	ND< 25	ND< 0.5	ND< 0.5	ND< 0.5	ND< 0.5
	SB-14@12'	12	06/22/10	ND< 0.5	ND< 5	ND< 25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005

Abbreviations and Notes:

TPH-g = Total Petroleum Hydrocarbons as gasoline

DRO = Diesel Range Organics

TPH-mo = Total Petroleum Hydrocarbons as Motor Oil

mg/kg = milligrams per kilogram

EPA = Environmental Protection Agency

ND = Not detected above laboratory method detection limits

ESLs = Environmental Screening Levels, San Francisco Bay Region Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008)

- ESL for current site usage, residential use where groundwater is not a potential source of drinking water; shallow soils (< 3 meters) [Table B] and deep soils (> 3 meters) [Table D]
- ESL for residential use where groundwater is a potential source of drinking water; shallow soils (< 3 meters) [Table A] and deep soils (> 3 meters) [Table C]

* - The sample chromatograph pattern does not match the typical chromatograph pattern for diesel

TABLE 2
SOIL ANALYTICAL DATA - OXYGENATES AND LEAD SCAVENGERS

Former Shell-Branded Service Station
15275 Washington Avenue, San Leandro, California

Sample Location	Sample Name	Sample Depth (feet)	Sample Date	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	EDC (mg/kg)
Analytical Method:				EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
Residential ESL ² , non-drinking water (Shallow/Deep)				8.4 / 8.4	100 / 110	NA / NA	NA / NA	NA / NA	NA / NA	0.019 / 1.0	0.22 / 1.8
Residential ESL ¹ , potential drinking water (Shallow/Deep)				<i>0.023 / 0.023</i>	<i>0.075 / 0.075</i>	NA / NA	NA / NA	NA / NA	NA / NA	<i>0.00033 / 0.00033</i>	<i>0.0045 / 0.0045</i>
SB-1	SB-1@16'	16	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-2	SB-2@12'	12	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-2@50'	50	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-3	SB-3@16'	16	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-3@50'	50	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-4	SB-4@8'	8	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-4@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-5	SB-5@8'	8	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-5@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-6	SB-6@8'	8	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-6@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-7	SB-7@10'	10	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-7@14'	14	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-8	SB-8@6'	6	06/21/10	ND< 0.5	ND< 5	ND< 1	ND< 1	ND< 1	ND< 50	ND< 0.5	ND< 0.5
	SB-8@14'	14	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-9	SB-9@8'	8	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-9@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-10	SB-10@12'	12	06/21/10	ND< 0.5	ND< 5	ND< 1	ND< 1	ND< 1	ND< 50	ND< 0.5	ND< 0.5
	SB-10@16'	16	06/21/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-11	SB-11@8'	8	06/22/10	ND< 0.5	ND< 5	ND< 1	ND< 1	ND< 1	ND< 50	ND< 0.5	ND< 0.5
	SB-11@24'	24	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-12	SB-12@8'	8	06/22/10	ND< 2	ND< 20	ND< 4	ND< 4	ND< 4	ND< 200	ND< 2	ND< 2
	SB-12@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-13	SB-13@10'	10	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
	SB-13@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005
SB-14	SB-14@6'	6	06/22/10	ND< 0.5	ND< 5	ND< 1	ND< 1	ND< 1	ND< 50	ND< 0.5	ND< 0.5
	SB-14@12'	12	06/22/10	ND< 0.005	ND< 0.05	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.5	ND< 0.005	ND< 0.005

Abbreviations and Notes:

MTBE - Methyl tert-butyl ether
TBA - Tert-butyl alcohol
DIPE - Di-isopropyl ether
ETBE - Ethyl tert-butyl ether
TAME - Tert-amyl methyl ether
EDB - 1,2-Dibromoethane

EDC - 1,2-Dichloroethane
mg/kg - milligrams per kilogram
EPA = Environmental Protection Agency
NA = Not applicable or not available
ND - Not detected above laboratory detection limits

ESLs = Environmental Screening Levels, San Francisco Bay Region Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008)

- ESL for current site usage, residential use where groundwater is not a potential source of drinking water; shallow soils (< 3 meters) [Table B] and deep soils (> 3 meters) [Table D]
- ESL for residential use where groundwater is a potential source of drinking water; shallow soils (< 3 meters) [Table A] and deep soils (> 3 meters) [Table C]

PROJECT NUMBER SCA15275-1
 APPROVED BY
 CHECKED BY
 DRAWN BY AD 8/06/2010

SB-7			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
10	ND<0.5	ND<5	ND<25
14	ND<0.5	ND<5	ND<25

SB-8			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
6	280	13	ND<25
14	ND<0.5	ND<5	ND<25

SB-9			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
8	ND<0.5	ND<5	ND<25
12	ND<0.5	ND<5	ND<25

SB-3			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
16	ND<0.5	ND<5	ND<25
50	ND<0.5	ND<5	ND<25

SB-1			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
16	ND<0.5	ND<5	ND<25

SB-10			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
12	ND<50	ND<5	ND<25
16	ND<0.5	ND<5	ND<25

SB-14			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
6	290	9.1	ND<25
12	ND<0.5	ND<5	ND<25

SB-13			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
10	1.8	ND<5	ND<25
12	ND<0.5	ND<5	ND<25

SB-12			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
8	1,100	79	ND<25
12	ND<0.5	ND<5	ND<25

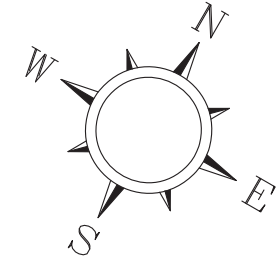
SB-11			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
8	70	7.3	ND<25
24	ND<0.5	ND<5	ND<25

SB-6			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
8	3.7	ND<5	ND<25
12	0.95	ND<5	ND<25

SB-2			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
12	0.53	31	100
50	ND<0.5	ND<5	ND<25

SB-4			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
8	ND<0.5	ND<5	ND<25
12	ND<0.5	ND<5	ND<25

SB-5			
DEPTH (FEET)	TPPH (mg/kg)	DRO (mg/kg)	TPH-MO (mg/kg)
8	ND<0.5	110*	320
12	ND<0.5	ND<5	ND<25



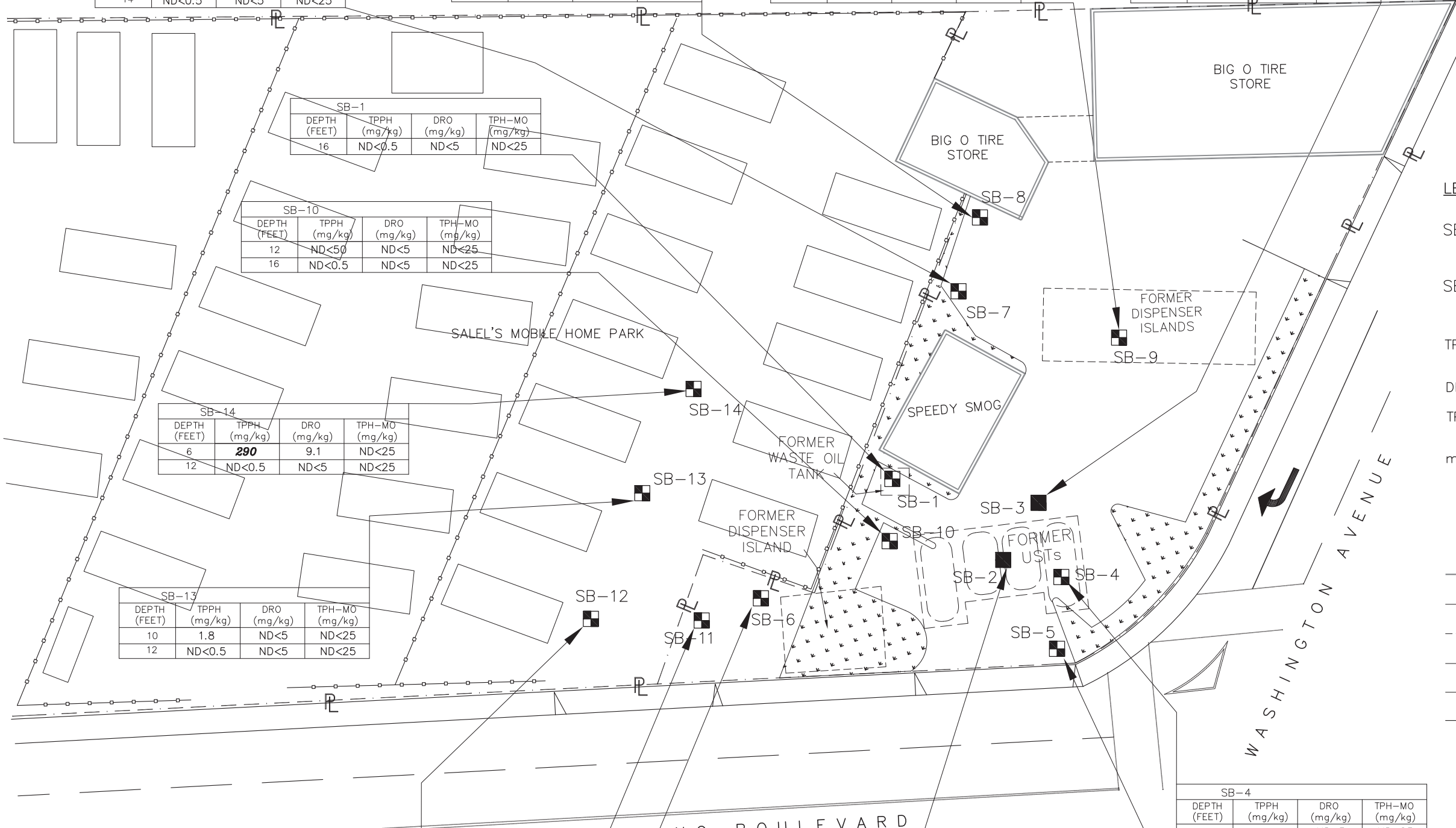
- LEGEND**
- SB-1 ■ SHALLOW SOIL BORING LOCATION AND DESIGNATION SAMPLED 6/22/2010
 - SB-2 ■ DEEP SOIL BORING LOCATION AND DESIGNATION SAMPLED 6/22/2010
 - TPPH TOTAL PURGEABLE PETROLEUM HYDROCARBON
 - DRO DIESEL RANGE ORGANICS
 - TPH-MO TOTAL PETROLUUM HYDROCARBONS AS MOTOR OIL
 - mg/kg MILIGRAMS PER KILOGRAM
 - * SAMPLE CHROMATOGRAPH PATTERN FOR DRO DOES NOT MATCH TYPICAL CHROMATOGRAPH PATTERN OF THE SPECIFIC STANDARD
 - EXTENDED TEST WELL
 - TRAILER PARK STRUCTER
 - - - FORMER BUILDING
 - - - FORMER UST LOCATION
 - PL — PROPERTY LINE
 - FENCING



SHELL OIL PRODUCTS U.S.
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 7

CONFIRMATION SOIL BORING
 CONCENTRATION MAP - JUNE 2010
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA



APPENDIX F
SOIL GAS ANALYTICAL DATA

TABLE 1
SOIL GAS ANALYTICAL DATA

Former Shell Service Station
15275 Washington Avenue
San Leandro, California

Sample Location (depth, feet)	Date	TPH-g ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethyl-benzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	TBA ($\mu\text{g}/\text{m}^3$)	Isopropanol ($\mu\text{g}/\text{m}^3$)
Residential ESL ¹		10,000	84	63,000	980	21,000	9,400	NA	(Tracer compound)
Commercial ESL ¹		29,000	280	180,000	3,300	58,000	31,000	NA	
SVG-1 (3.5')	09/09/10	15,000,000	3,400	ND(<2,400)	ND(<2,700)	ND(<5,400)	ND(<4,500)	ND(<3,800)	ND(<1,500)
SVG-2 (3')	09/09/10	17,000,000	32,000	ND(<19,000)	150,000	ND(<43,000)	ND(<36,000)	ND(<30,000)	ND(<12,000)
SVG-2 (5')	09/09/10	18,000,000	17,000	ND(<19,000)	200,000	44,000	ND(<36,000)	ND(<30,000)	ND(<12,000)
SVG-3 (3')	09/09/10	86,000	ND(<80)	ND(<94)	1,100	220	ND(<180)	ND(<150)	ND(<61)
SVG-4 (3')	09/09/10	50,000	ND(<16)	ND(<19)	610	160	ND(<36)	ND(<30)	ND(<12)
SVG-5 (3')	09/09/10	37,000,000	2,700	ND(<2,400)	9,300	ND(<5,400)	ND(<4,500)	ND(<3,800)	ND(<1,500)
SVG-5 (5')	09/09/10	32,000,000	ND(<4,800)	ND(<5,700)	ND(<6,500)	ND(<13,000)	ND(<11,000)	ND(<9,100)	ND(<3,700)
SVG-6 (3')	09/09/10	140,000,000	44,000	ND(<30,000)	ND(<35,000)	ND(<69,000)	ND(<58,000)	ND(<49,000)	ND(<20,000)
SVG-6 (5')	09/09/10	160,000,000	46,000	ND(<30,000)	ND(<35,000)	ND(<69,000)	ND(<58,000)	ND(<49,000)	ND(<20,000)
SVG-7 (3')	09/09/10	97,000	ND(<80)	ND(<94)	300	ND(<220)	ND(<180)	ND(<150)	ND(<61)
SVG-8 (3')	09/09/10	100,000	ND(<80)	ND(<94)	300	ND(<220)	ND(<180)	ND(<150)	ND(<61)
SVG-8 (5')	09/09/10	81,000	ND(<80)	ND(<94)	240	ND(<220)	ND(<180)	ND(<150)	ND(<61)
SVG-8 (7.5')	09/09/10	62,000	ND(<51)	ND(<60)	230	ND(<140)	ND(<120)	ND(<97)	ND(<39)
SVG-9 (3')	09/09/10	57,000	ND(<51)	ND(<60)	230	ND(<140)	ND(<120)	ND(<97)	ND(<39)
SVG-9 (5')	09/09/10	7,900	ND(<16)	32	32	ND(<43)	ND(<36)	ND(<30)	99
SVG-9 (7.5')	09/09/10	36,000	ND(<64)	ND(<75)	95	ND(<170)	ND(<140)	ND(<120)	ND(<49)

Abbreviations and Notes:

TPH-g - Total petroleum hydrocarbons as gasoline

MTBE - Methyl-tert butyl ether

TBA - Tert-butyl alcohol

$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

ESL = Environmental Screening Levels, Regional Water Quality Control Board, San Francisco Bay Region, Interim Final (Revised May 2008)

ND - Not detected above shown detection limit

1. ESL Table E-2: Indoor Air and Soil Gas (Vapor Intrusion Concerns), Shallow soil gas

Results exceeding a referenced ESL limit are noted in italicized or bolded text, as appropriate (including non-detected samples with elevated reporting limits)

TABLE 2
BIOGENIC GAS ANALYTICAL DATA

Former Shell Service Station
15275 Washington Avenue
San Leandro, California

Sample Location (depth in feet)	Date	TPH-g ($\mu\text{g}/\text{m}^3$)	Methane (%v)	Carbon Dioxide (%v)	Oxygen + Argon (%v)
SVG-1 (3.5')	09/09/10	15,000,000	NA	NA	NA
SVG-2 (3')	09/09/10	17,000,000	1.33	13.9	2.26
SVG-2 (5')	09/09/10	18,000,000	1.19	16.9	2.22
SVG-3 (3')	09/09/10	86,000	NA	NA	NA
SVG-4 (3')	09/09/10	50,000	NA	NA	NA
SVG-5 (3')	09/09/10	37,000,000	1.20	13.3	2.28
SVG-5 (5')	09/09/10	32,000,000	1.11	16.5	1.97
SVG-6 (3')	09/09/10	140,000,000	1.89	8.57	2.11
SVG-6 (5')	09/09/10	160,000,000	1.87	9.09	2.43
SVG-7 (3')	09/09/10	97,000	NA	NA	NA
SVG-8 (3')	09/09/10	100,000	ND<0.5	12.4	1.97
SVG-8 (5')	09/09/10	81,000	ND<0.5	12.6	1.97
SVG-8 (7.5')	09/09/10	62,000	ND<0.5	12.5	1.97
SVG-9 (3')	09/09/10	57,000	ND<0.5	15.1	7.01
SVG-9 (5')	09/09/10	7,900	ND<0.5	1.54	20.4
SVG-9 (7.5')	09/09/10	36,000	ND<0.5	16.8	5.52

Abbreviations and Notes:

TPH-g - Total petroleum hydrocarbons as gasoline

$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

%v = Percent by volume

NA = Not analyzed

ND< = Not detected above shown detection limit

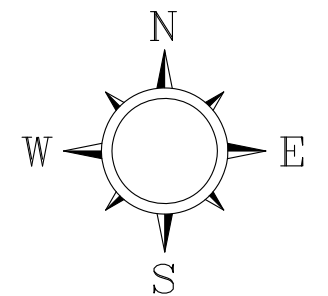
Note that samples for biogenic gas were not collected where only one sample point was available due to elevated groundwater levels in some of the wells.

PROJECT NUMBER SCA15275-1

APPROVED BY

CHECKED BY

DRAWN BY AD 11/16/2010



SVG-8	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	100,000
5	81,000
7.5	62,000

SVG-7	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	97,000
5	NS
7.5	NS

SVG-4	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	50,000
5	NS
7.5	NS

SVG-1	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3.5	15,000,000
5	NS
7.5	NS

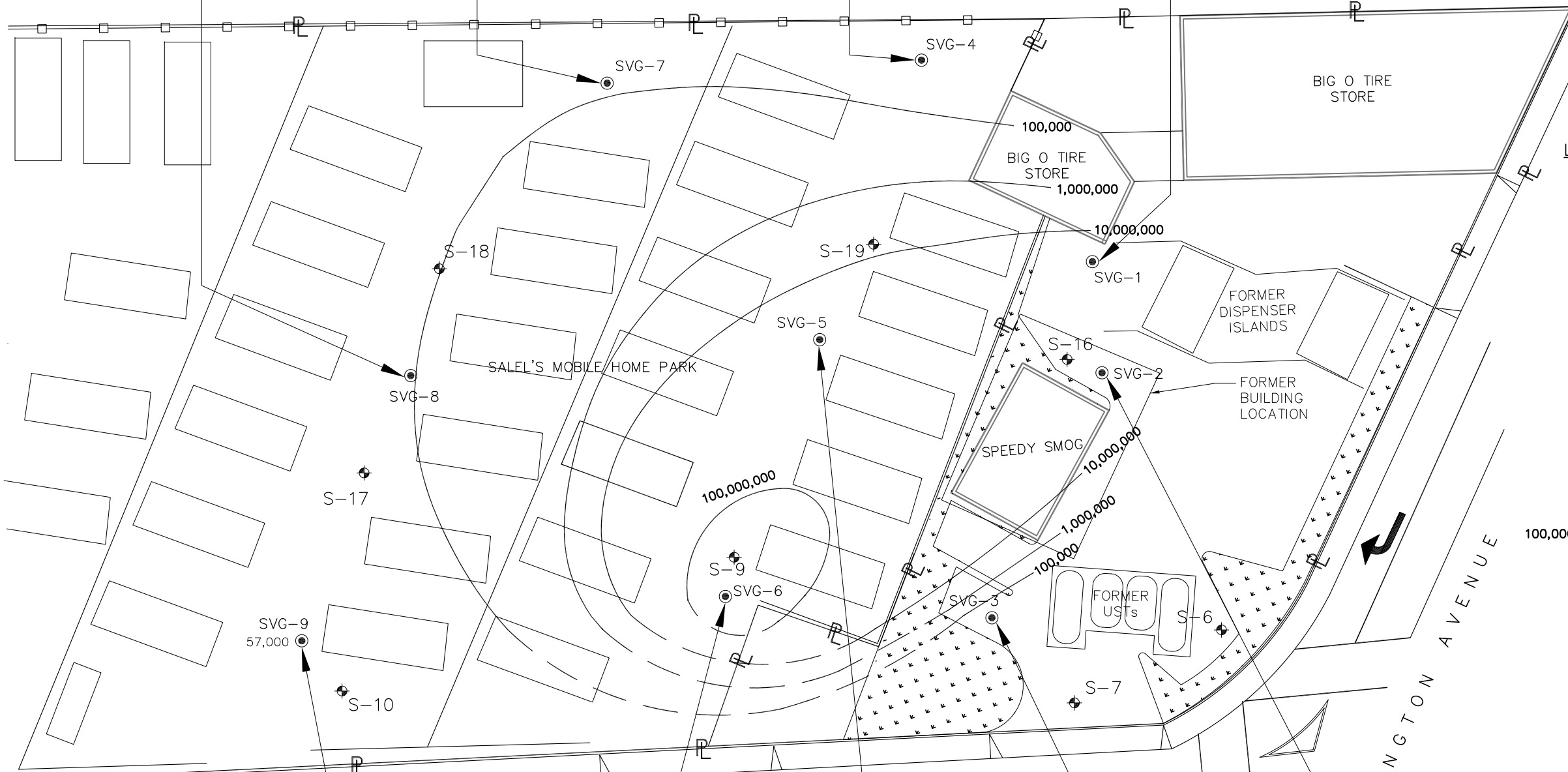
SVG-9	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	57,000
5	7,900
7.5	36,000

SVG-6	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	140,000,000
5	160,000,000
7.5	NS

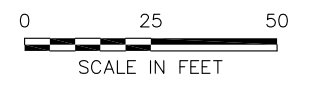
SVG-5	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	37,000,000
5	32,000,000
7.5	NS

SVG-3	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	86,000
5	NS
7.5	NS

SVG-2	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	17,000,000
5	18,000,000
7.5	NS



- LEGEND**
- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - SVG-1 SOIL VAPOR WELL LOCATION AND DESIGNATION
 - TRAILER PARK STRUCTUR
 - FORMER BUILDING
 - FORMER UST LOCATION
 - PROPERTY LINE
 - FENCING
 - NS NOT SAMPLED
 - ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED
 - TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 - 100,000 ISOCONTOUR LINE



SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 3

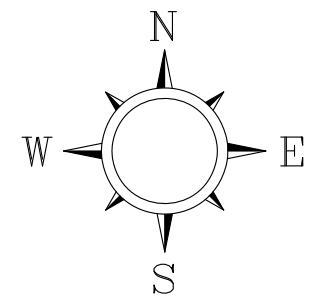
3-FOOT TPH-g SOIL GAS
CONCENTRATION MAP - 9/09/2010
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA15275-1

APPROVED BY

CHECKED BY

DRAWN BY AD 11/16/2010



SVG-8	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	100,000
5	81,000
7.5	62,000

SVG-7	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	97,000
5	NS
7.5	NS

SVG-4	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	50,000
5	NS
7.5	NS

SVG-1	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3.5	15,000,000
5	NS
7.5	NS

SVG-9	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	57,000
5	7,900
7.5	36,000

SVG-6	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	140,000,000
5	160,000,000
7.5	NS

SVG-5	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	37,000,000
5	32,000,000
7.5	NS

SVG-3	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	86,000
5	NS
7.5	NS

SVG-2	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	17,000,000
5	18,000,000
7.5	NS

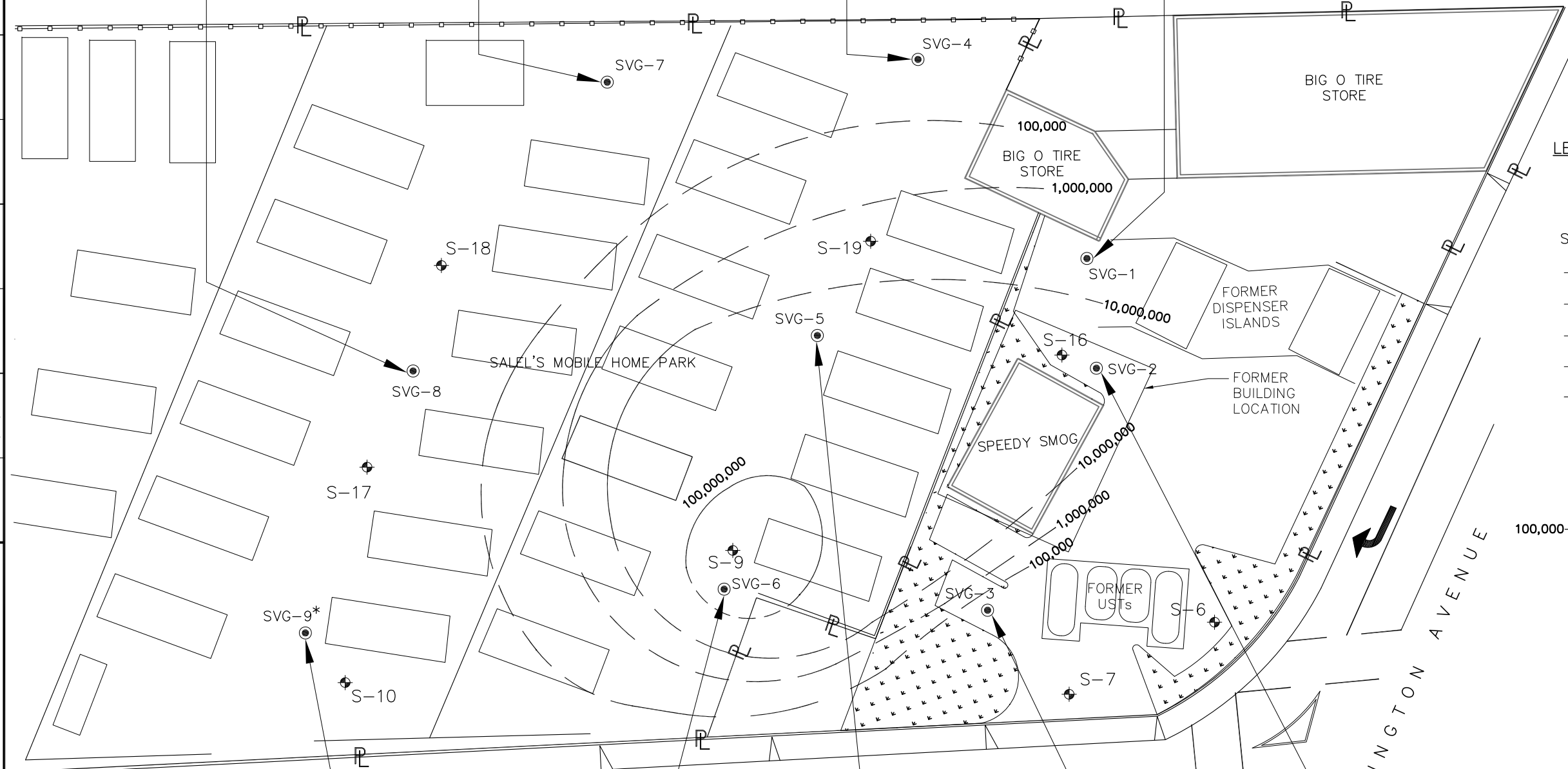
- LEGEND**
- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - SVG-1 SOIL VAPOR WELL LOCATION AND DESIGNATION
 - TRAILER PARK STRUCTUR
 - FORMER BUILDING
 - FORMER UST LOCATION
 - PROPERTY LINE
 - FENCING
 - NS NOT SAMPLED
 - ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED
 - TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 - 100,000 ISOCONTOUR LINE
 - * ANOMALOUS DATA POINT NOT USED IN CONTOURING



SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 4

5-FOOT TPH-g SOIL GAS
CONCENTRATION MAP - 9/09/2010
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

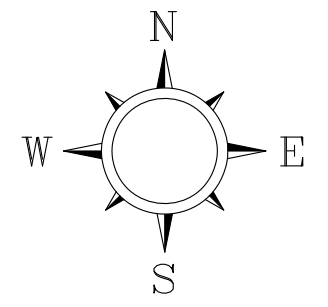


PROJECT NUMBER SCA15275-1

APPROVED BY

CHECKED BY

DRAWN BY AD 11/16/2010



SVG-8	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<80
5	ND<80
7.5	ND<51

SVG-7	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	NS<80
5	NS
7.5	NS

SVG-4	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<16
5	NS
7.5	NS

SVG-1	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3.5	3,400
5	NS
7.5	NS

SVG-9	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<51
5	ND<16
7.5	ND<64

SVG-6	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	44,000
5	46,000
7.5	NS

SVG-5	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	2,700
5	ND<4,800
7.5	NS

SVG-3	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<80
5	NS
7.5	NS

SVG-2	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	32,000
5	17,000
7.5	NS

LEGEND

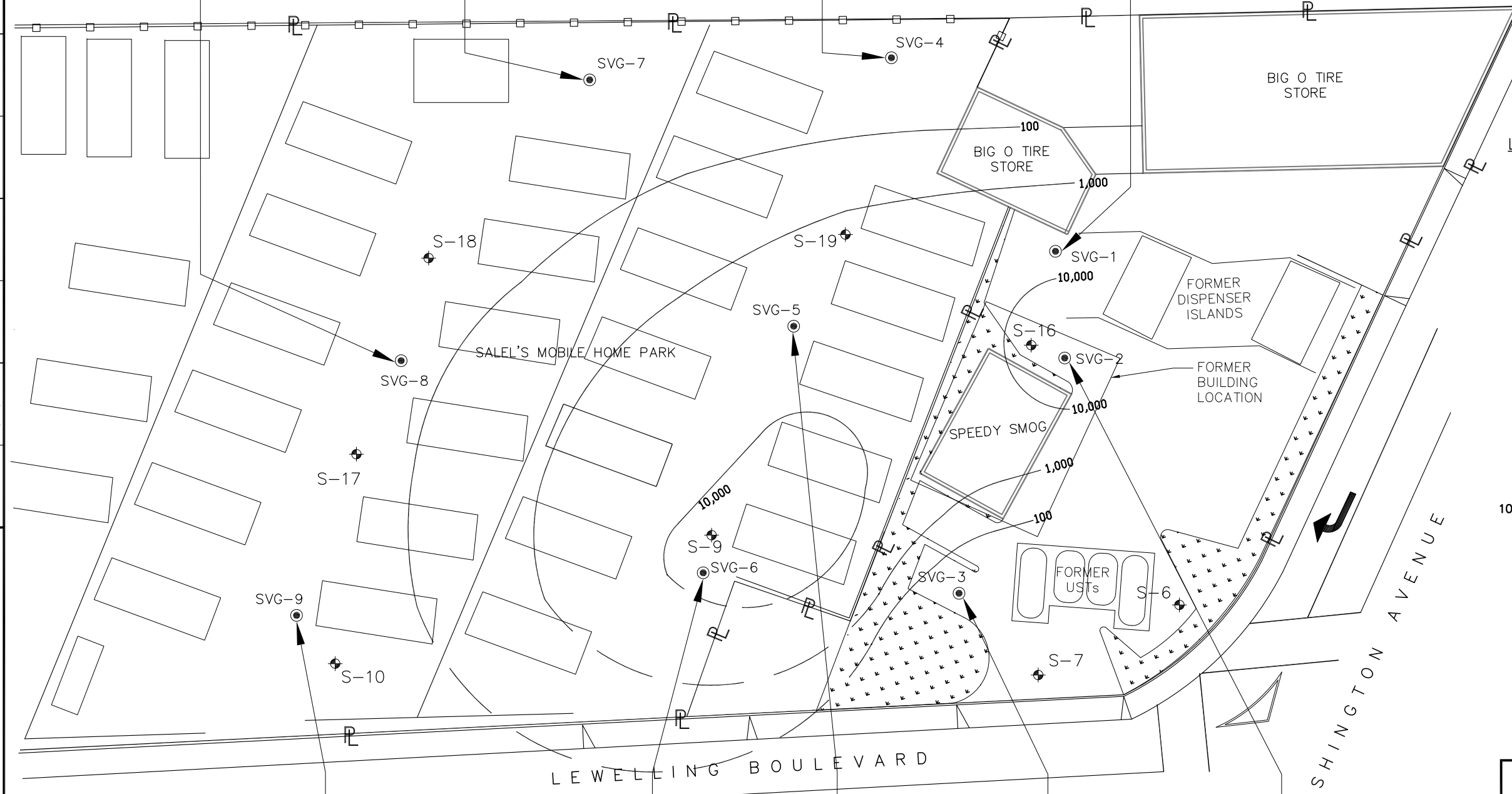
- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- SVG-1 SOIL VAPOR WELL LOCATION AND DESIGNATION
- TRAILER PARK STRUCTUR
- FORMER BUILDING
- FORMER UST LOCATION
- PROPERTY LINE
- FENCING
- ND< NOT DETECTED ABOVE LIMIT NOTED
- NS NOT SAMPLED
- ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED
- 10,000 ISOCONTOUR LINE



SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 5

**3-FOOT BENZENE SOIL GAS
CONCENTRATION MAP - 9/09/2010**
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

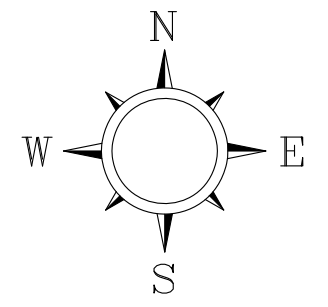


PROJECT NUMBER SCA15275-1

APPROVED BY

CHECKED BY

DRAWN BY AD 11/16/2010



SVG-8	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<80
5	ND<80
7.5	ND<51

SVG-7	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	NS<80
5	NS
7.5	NS

SVG-4	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<16
5	NS
7.5	NS

SVG-1	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3.5	3,400
5	NS
7.5	NS

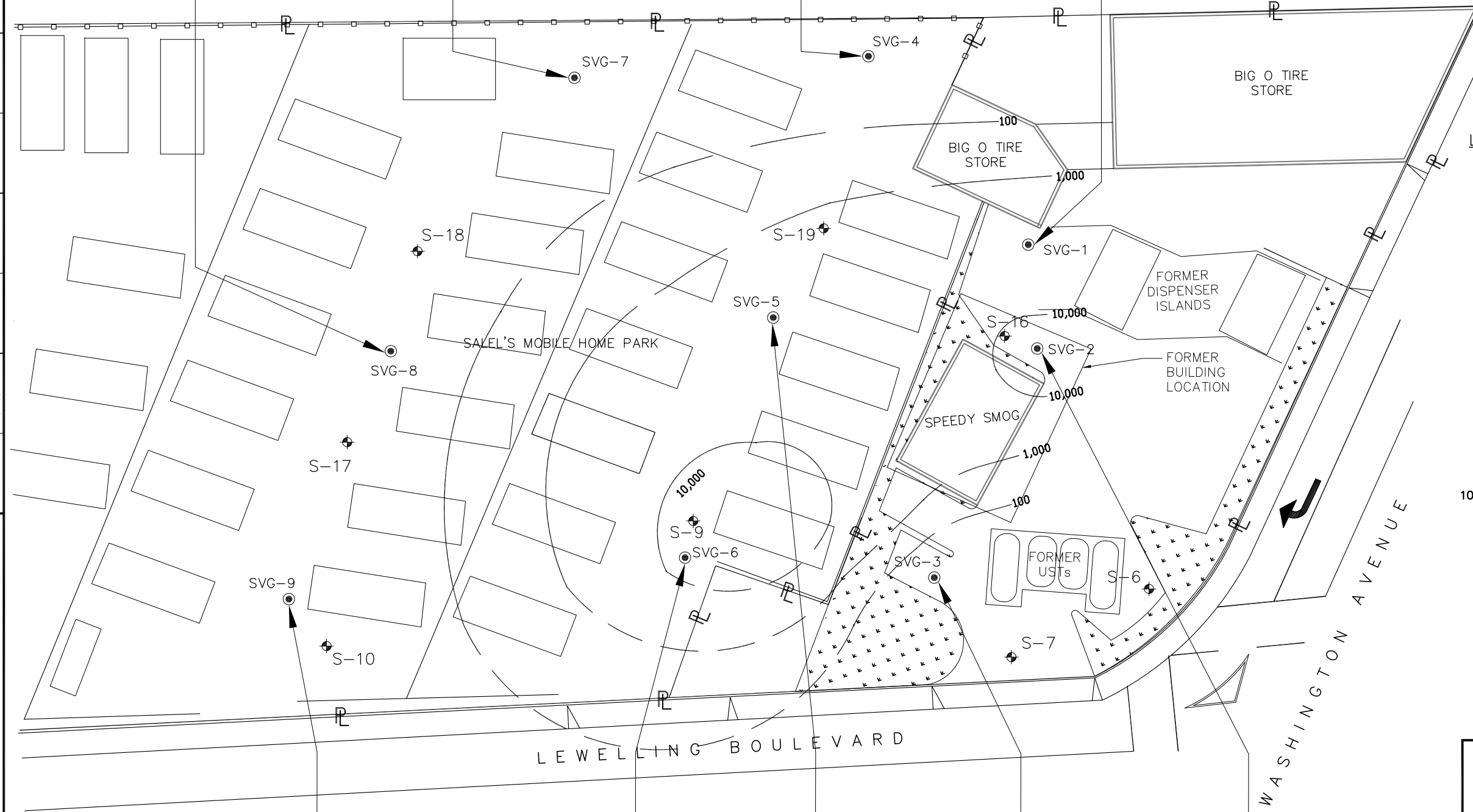
SVG-9	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<51
5	ND<16
7.5	ND<64

SVG-6	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	44,000
5	46,000
7.5	NS

SVG-5	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	2,700
5	ND<4,800
7.5	NS

SVG-3	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<80
5	NS
7.5	NS

SVG-2	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	32,000
5	17,000
7.5	NS



LEGEND

- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- SVG-1 SOIL VAPOR WELL LOCATION AND DESIGNATION
- TRAILER PARK STRUCTUR
- FORMER BUILDING
- FORMER UST LOCATION
- PROPERTY LINE
- FENCING
- ND< NOT DETECTED ABOVE LIMIT NOTED
- NS NOT SAMPLED
- ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED
- 10,000 ISOCONTOUR LINE



SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 6

5-FOOT BENZENE SOIL GAS
CONCENTRATION MAP - 9/09/2010
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

TABLE 1
SOIL GAS ANALYTICAL DATA

Former Shell Service Station
15275 Washington Avenue
San Leandro, California

Sample Location (depth, feet)	Date	TPH-g ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethyl-benzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	TBA ($\mu\text{g}/\text{m}^3$)	Isopropanol ($\mu\text{g}/\text{m}^3$)
SVG-1 (3')	03/18/10	8,700,000	ND(<8,000)	ND(<9,400)	11,000	ND(<22,000)	ND(<18,000)	ND(<15,000)	ND(<6,100)
SVG-1 (5')	03/18/10	8,200,000	ND(<8,000)	ND(<9,400)	ND(<11,000)	ND(<22,000)	ND(<18,000)	ND(<15,000)	ND(<6,100)
SVG-2 (3')	03/18/10	11,000,000	21,000	ND(<19,000)	62,000	ND(<43,000)	ND(<36,000)	ND(<30,000)	ND(<12,000)
SVG-2 (5')	03/18/10	7,500,000	ND(<8,000)	ND(<9,400)	54,000	ND(<22,000)	ND(<18,000)	ND(<15,000)	ND(<6,100)
SVG-3 (3')	03/18/10	39,000	ND(<51)	ND(<60)	460	230	ND(<120)	ND(<97)	ND(<39)
SVG-3 (5')	03/18/10	49,000	ND(<64)	ND(<75)	520	250	ND(<140)	ND(<120)	ND(<49)
SVG-4 (3')	03/18/10	28,000	ND(<16)	ND(<19)	420	250	ND(<36)	ND(<30)	100
SVG-5 (3')	03/18/10	27,000,000	ND(<32,000)	ND(<38,000)	ND(<43,000)	ND(<87,000)	ND(<72,000)	ND(<61,000)	ND(<25,000)
SVG-5 (5')	03/18/10	13,000,000	ND(<16,000)	ND(<19,000)	ND(<22,000)	ND(<43,000)	ND(<36,000)	ND(<30,000)	ND(<12,000)
SVG-6 (3')	03/18/10	110,000,000	ND(<130,000)	ND(<150,000)	ND(<170,000)	ND(<350,000)	ND(<290,000)	ND(<240,000)	ND(<98,000)
SVG-6 (5')	03/18/10	75,000,000	ND(<8,000)	ND(<9,400)	ND(<11,000)	ND(<22,000)	ND(<18,000)	ND(<15,000)	ND(<6,100)
SVG-7 (3')	03/18/10	170,000	ND(<160)	ND(<190)	ND(<220)	ND(<430)	ND(<360)	ND(<300)	ND(<120)
SVG-8 (3')	03/18/10	70,000	ND(<80)	ND(<94)	170	ND(<220)	ND(<180)	ND(<150)	ND(<61)
SVG-8 (5')	03/18/10	140,000	ND(<80)	ND(<94)	300	ND(<220)	ND(<180)	ND(<150)	210
SVG-9 (3')	03/18/10	67,000	ND(<80)	ND(<94)	250	ND(<220)	ND(<180)	ND(<150)	ND(<61)
SVG-9 (5')	03/18/10	55,000	ND(<64)	ND(<75)	220	ND(<170)	ND(<140)	ND(<120)	ND(<49)
Residential ESL¹		10,000	84	63,000	980	21,000	9,400	NA	
Commercial ESL¹		29,000	280	180,000	3,300	58,000	31,000	NA	
Abbreviations and Notes:									
TPH-g - Total petroleum hydrocarbons as gasoline									
MTBE - Methyl-tert butyl ether									
TBA - Tert-butyl alcohol									
$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter									
ND - Not detected above shown detection limit									
1. Environmental Screening Levels (ESLs), Table E-2: Indoor Air and Soil Gas (Vapor Intrusion Concerns), Shallow soil gas, Regional Water Quality Control Board, San Francisco Bay Region, Interim Final (Revised May 2008)									

TABLE 2
BIOGENIC GAS ANALYTICAL DATA

Former Shell Service Station
15275 Washington Avenue
San Leandro, California

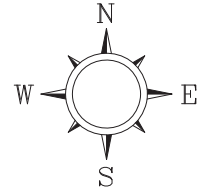
Sample Location (depth in feet)	Date	TPH-g ($\mu\text{g}/\text{m}^3$)	Carbon Dioxide (%v)	Oxygen + Argon (%v)
SVG-1 (3')	03/18/10	8,700,000	0.971	2.32
SVG-1 (5')	03/18/10	8,200,000	4.22	2.06
SVG-2 (3')	03/18/10	11,000,000	0.519	2.31
SVG-2 (5')	03/18/10	7,500,000	4.91	11.2
SVG-3 (3')	03/18/10	39,000	3.38	15.1
SVG-3 (5')	03/18/10	49,000	3.43	15.0
SVG-4 (3')	03/18/10	28,000	7.63	6.75
SVG-5 (3')	03/18/10	27,000,000	2.22	2.74
SVG-5 (5')	03/18/10	13,000,000	ND(<0.500)	21.5
SVG-6 (3')	03/18/10	110,000,000	3.64	2.36
SVG-6 (5')	03/18/10	75,000,000	6.36	2.27
SVG-7 (3')	03/18/10	170,000	0.816	16.7
SVG-8 (3')	03/18/10	70,000	8.28	2.12
SVG-8 (5')	03/18/10	140,000	7.93	2.45
SVG-9 (3')	03/18/10	67,000	10.7	4.25
SVG-9 (5')	03/18/10	55,000	10.4	4.27
Abbreviations and Notes:				
$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter				
%v = Percent by volume				
ND = Not detected above shown detection limit				

PROJECT NUMBER SCA15275-1

APPROVED BY

CHECKED BY

DRAWN BY 4/09/2010



SVG-8	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	70,000
5	140,000
7.5	NS

SVG-7	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	170,000
5	NS
7.5	NS

SVG-4	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	28,000
5	NS
7.5	NS

SVG-1	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	8,700,000
5	8,200,000
7.5	NS

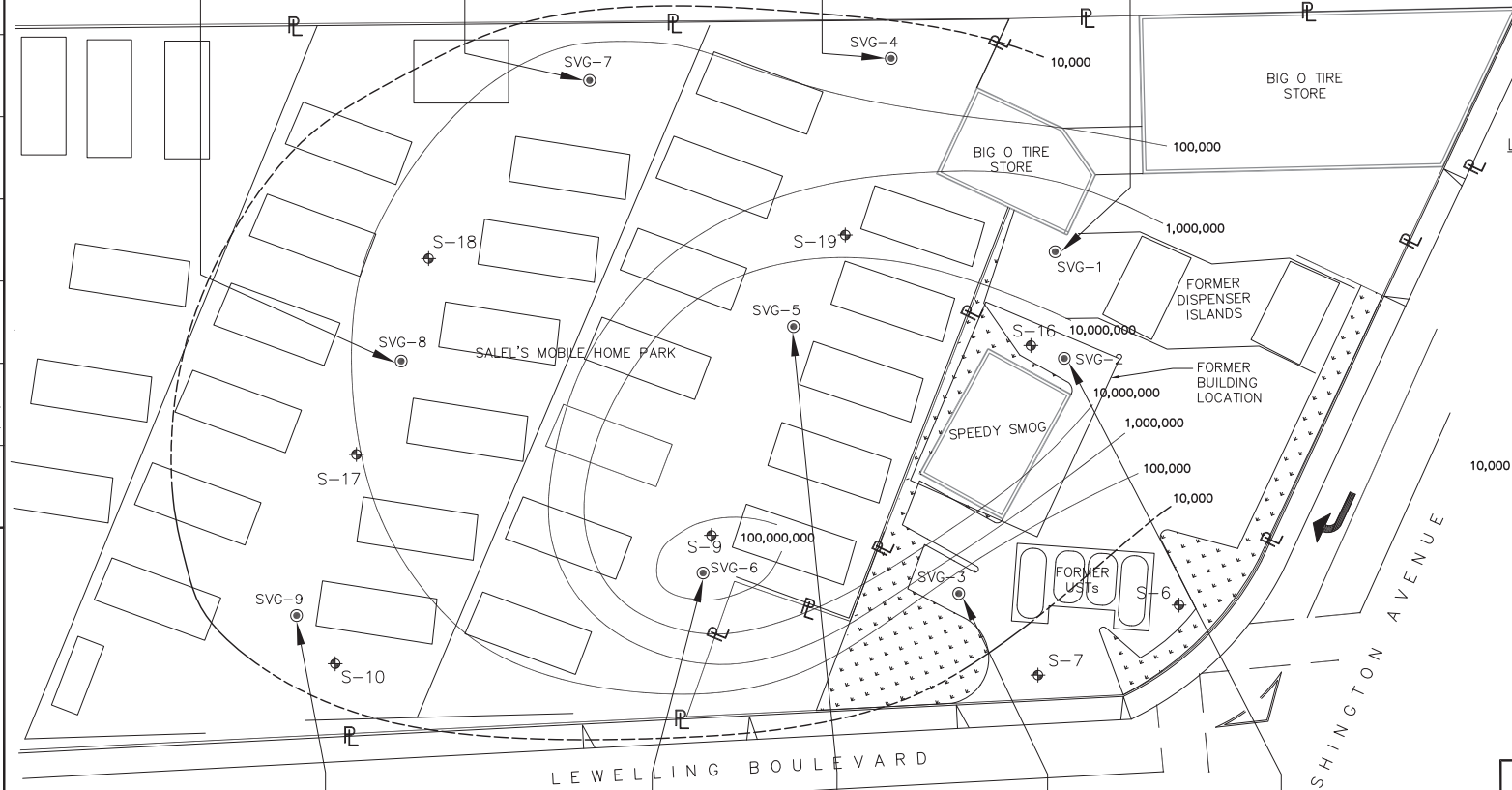
SVG-9	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	67,000
5	55,000
7.5	NS

SVG-6	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	110,000,000
5	75,000,000
7.5	NS

SVG-5	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	27,000,000
5	13,000,000
7.5	NS

SVG-3	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	39,000
5	49,000
7.5	NS

SVG-2	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	11,000,000
5	7,500,000
7.5	NS



- LEGEND**
- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - SVG-1 SOIL VAPOR WELL LOCATION AND DESIGNATION
 - TRAILER PARK STRUCTION
 - FORMER BUILDING
 - FORMER UST LOCATION
 - PROPERTY LINE
 - FENCING
 - NS NOT SAMPLED
 - ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED
 - 10,000 TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 - ISOCONTOUR LINE



DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 4

SHALLOW TPH-g SOIL GAS
CONCENTRATION MAP - 3/18/2010
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

Table 1
Soil Vapor Sampling Analytical Data
Former Shell Service Station
15275 Washington Avenue
San Leandro, California

Sample Location (depth, feet)	Date	TPH-g ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethyl-benzene ($\mu\text{g}/\text{m}^3$)	Total Xylenes ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	TBA ($\mu\text{g}/\text{m}^3$)	1,1-difluoroethane ($\mu\text{g}/\text{m}^3$) ^a
P-24 (3)	09/23/09	160,000	1.9	25	ND<2.2	ND<8.7	ND<7.2	ND<15	570,000
P-24 (5)	09/23/09	340,000	ND<3.2	ND<38	ND<4.3	ND<17	ND<14	ND<30	1,000,000
P-24 (8)	09/23/09	48,000	1.7	ND<19	ND<2.2	ND<8.7	ND<7.2	ND<15	3,900,000
P-25 (3)	09/23/09	2,900,000	ND<64	ND<750	ND<87	ND<350	ND<7.2	ND<610	2,600,000
P-25 (5)	09/23/09	ND<5,700	ND<1.6	ND<19	ND<2.2	ND<8.7	ND<19	ND<15	4,300
P-25 (8)	09/23/09	ND<5,700	ND<1.6	ND<19	ND<2.2	ND<8.7	ND<7.2	ND<15	210
P-26 (3)	09/23/09	ND<5,700	1.8	21	ND<2.2	ND<8.7	ND<7.2	ND<15	28
P-26 (5)	09/23/09	610,000	ND<6.4	ND<75	ND<8.7	ND<35	ND<29	ND<61	1,300,000
P-26 (8)	09/23/09	2,600,000	ND<64	ND<750	ND<87	ND<350	ND<350	ND<610	4,800,000
P-27 (3)	09/24/09	410,000	ND<4.0	ND<47	ND<5.4	ND<22	ND<18	ND<38	710,000
P-27 (5)	09/24/09	120,000	ND<1.6	ND<19	ND<2.2	ND<8.7	ND<7.2	ND<15	14,000
P-27 (8)	09/24/09	570,000	ND<4.0	ND<47	ND<5.4	ND<22	ND<18	ND<38	860,000
P-28 (3)	09/24/09	1,200,000	ND<8.0	ND<94	ND<11	ND<43	ND<36	ND<76	2,200,000
P-28 (5)	09/24/09	58,000	1.8	ND<19	ND<2.2	ND<8.7	ND<7.2	ND<15	11,000
P-28 (8) ^b	09/24/09	270,000	ND<3.2	ND<38	ND<4.3	ND<17	ND<14	ND<30	42,000
P-29 (3)	09/24/09	1,200,000	ND<8.0	ND<94	ND<11	ND<43	ND<36	ND<76	2,000,000
P-29 (5)	09/24/09	660,000	ND<6.4	ND<75	ND<8.7	ND<35	ND<29	ND<61	1,300,000
P-29 (8) ^b	09/24/09	46,000	ND<1.6	ND<19	ND<2.2	ND<8.7	ND<7.2	ND<15	83,000

Abbreviations and Notes:

TPH-g - Total petroleum hydrocarbons as gasoline

MTBE - Methyl-tert butyl ether

TBA - Tert-butyl alcohol

($\mu\text{g}/\text{m}^3$) - micrograms per cubic meter

ND - Not detected above shown detection limit

a. Concentrations exceeding 10,000 $\mu\text{g}/\text{m}^3$ generally indicate the presence of a leak

b. Dilution analysis was performed outside the recommended holding time for tracer gas compound (1,1-difluoroethane)

PROJECT NUMBER SCA152751A
 APPROVED BY
 CHECKED BY
 DRAWN BY AD
 10/09/09

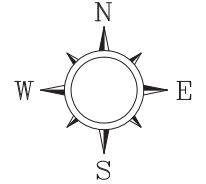
40
 20
 0
 SCALE IN FEET

P-27		P-25		P-26	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)	DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)	DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	410,000	3	2,900,000	3	ND<5,700
5	120,000	5	ND<5,700	5	610,000
8	570,000	8	ND<5,700	8	2,600,000

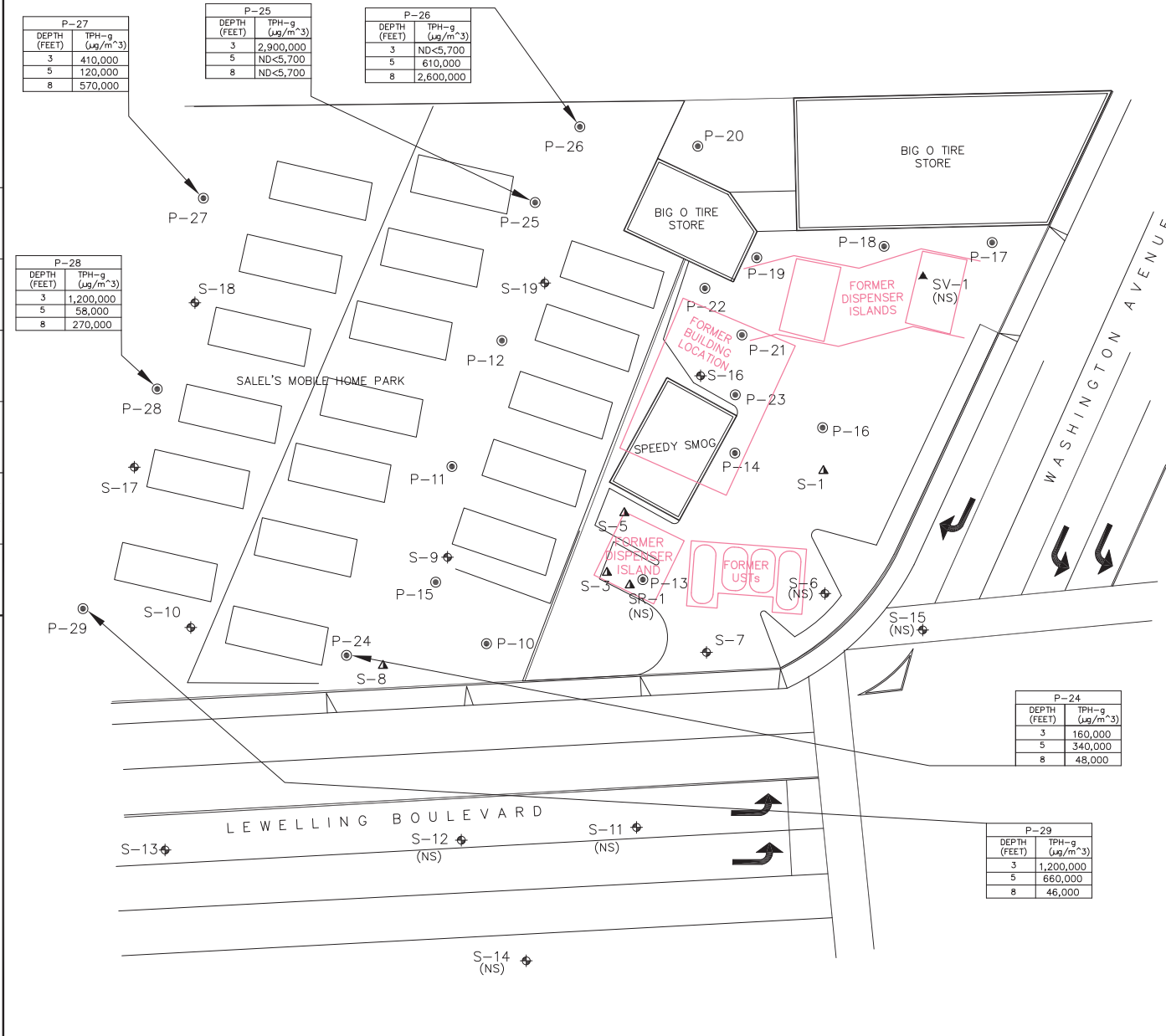
P-28	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	1,200,000
5	58,000
8	270,000

P-24	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	160,000
5	340,000
8	48,000

P-29	
DEPTH (FEET)	TPH-g ($\mu\text{g}/\text{m}^3$)
3	1,200,000
5	660,000
8	46,000



- LEGEND**
- S-6 \diamond GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - S-1 \blacktriangle GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
 - SV-1 \blacktriangle SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - P-18 \odot SOIL VAPOR SAMPLE LOCATIONS
 - ND< NOT DETECTED ABOVE LIMIT NOTED
 - ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED
 - TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE



DELTA CONSULTANTS

SHELL OIL PRODUCTS
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 3

THP-g CONCENTRATION MAP

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA152751A
 APPROVED BY
 CHECKED BY
 DRAWN BY AD 10/09/09

40
 20
 0
 SCALE IN FEET

P-27	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<4.0
5	ND<1.6
8	ND<4.0

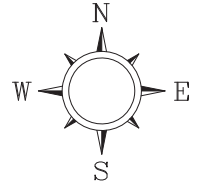
P-25	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<64
5	ND<1.6
8	ND<1.6

P-26	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	1.8
5	ND<6.4
8	ND<64

P-28	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<8.0
5	1.8
8	ND<3.2

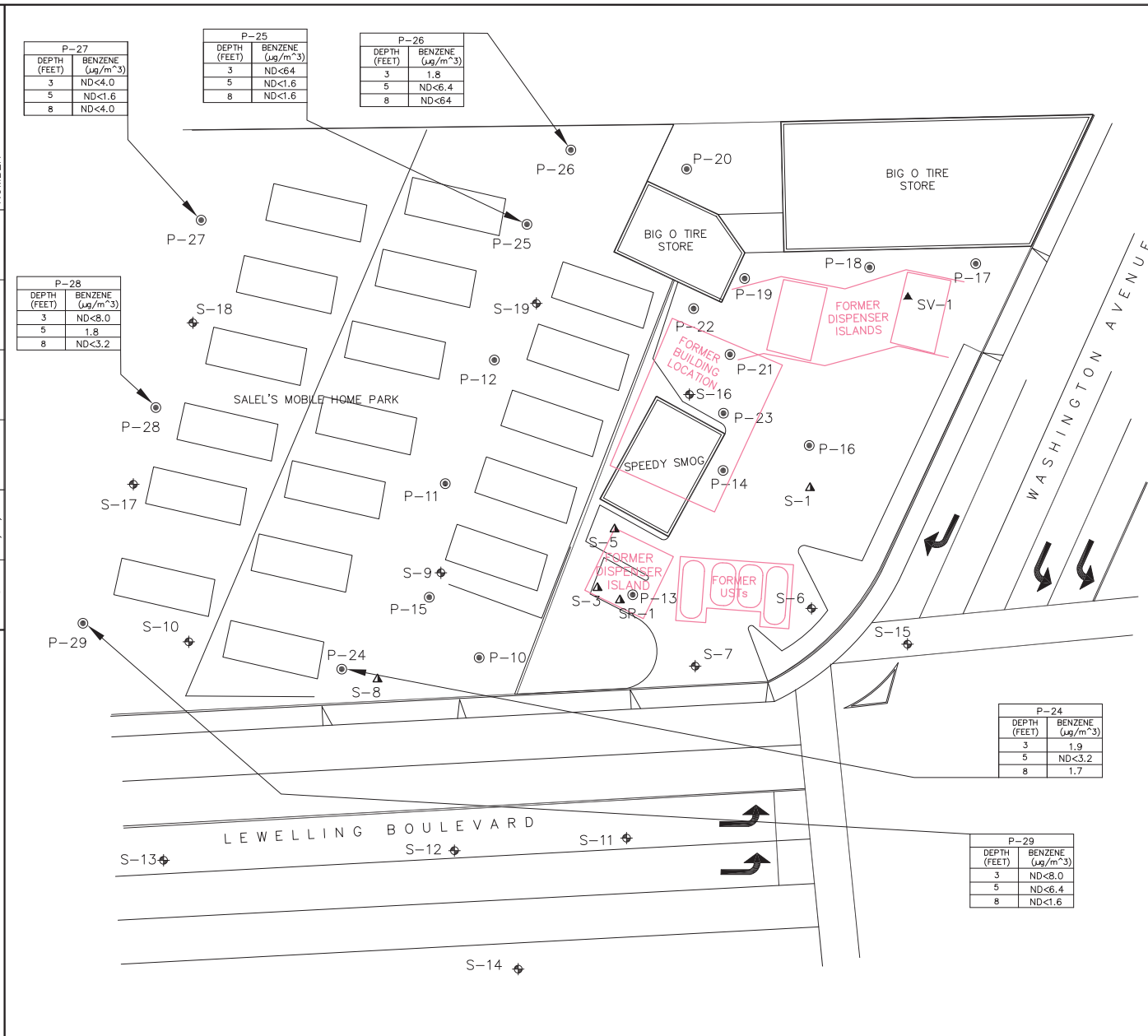
P-24	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	1.9
5	ND<3.2
8	1.7

P-29	
DEPTH (FEET)	BENZENE ($\mu\text{g}/\text{m}^3$)
3	ND<8.0
5	ND<6.4
8	ND<1.6



LEGEND

- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
- SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- P-18 SOIL VAPOR SAMPLE LOCATIONS
- ND< NOT DETECTED ABOVE LIMIT NOTED
- ($\mu\text{g}/\text{m}^3$) MICROGRAMS PER METER CUBED



DELTA CONSULTANTS

SHELL OIL PRODUCTS
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 4

BENZENE CONCENTRATION MAP

15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

TABLE 1
SOIL VAPOR SAMPLING ANALYTICAL DATA
Former Shell Service Station
15275 Washington Boulevard
San Leandro, CA

Well ID	Date	Depth (feet)	TPH-g (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	MTBE (ug/m3)	TBA (ug/m3)	2-Propanol
P-10	6/11/2008	5.5 ft	100,000	<2.7	14	3.9	11.8	<3.0	43	<8.2
P-11	6/11/2008	5.5 ft	8,000,000	1,100	240	<180	<180	<150	<520	<420
P-12	6/11/2008	5.5 ft	7,800,000	810	<630	<730	<730	<600	<5,100	<1,600
P-13	6/10/2008	5.5 ft	5,300	<2.5	5.6	<3.4	3.6	<2.8	<24	<7.8
P-14	6/10/2008	5.5 ft	2,100,000	1400	<130	4,700	280	<120	<1,000	<340
P-15	6/11/2008	5.5 ft	160,000	<54	<63	<73	<73	<60	<150	<160
P-16	6/10/2008	5.5 ft	130,000	<13	<15	26	<17	<14	<120	<120
P-17	6/10/2008	5.5 ft	450	<2.5	5.4	<3.4	3.6	<2.8	<23	<7.6
P-17D	6/10/2008	5.5 ft	1,100	<2.5	4.0	<3.4	<3.4	<2.8	<24	<7.8
P-18	6/10/2008	5.5 ft	13,000	3.2	6.0	<3.6	4.0	<3.0	36	<8.2
P-19	6/10/2008	5.5 ft	9,000,000	600	270	<180	<180	<150	<510	<410
P-20	6/10/2008	5.5 ft	26,000	<2.5	240	<3.4	<3.4	<2.8	55	27
P-20LD	6/10/2008	5.5 ft	26,000	<2.5	230	<3.4	<3.4	<2.8	52	29
P-21	6/10/2008	5.5 ft	8,200,000	6,400	280	27,000	3,500	<100	<340	<280
P-22	6/10/2008	5.5 ft	8,200,000	1,400	<320	14,000	<360	<300	<1,000	<820
P-23	6/10/2008	5.5 ft	6,500,000	12,000	190	46,000	25,120	<56	<190	<150
P-23LD	6/10/2008	5.5 ft	6,500,000	11,000	180	44,000	23,110	<56	<190	<150

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method T0-14/T0-15

BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method T0-14A/T0-15

MTBE = Methyl tert-butyl ether

TBA = Tert-butyl-alcohol

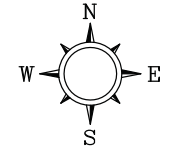
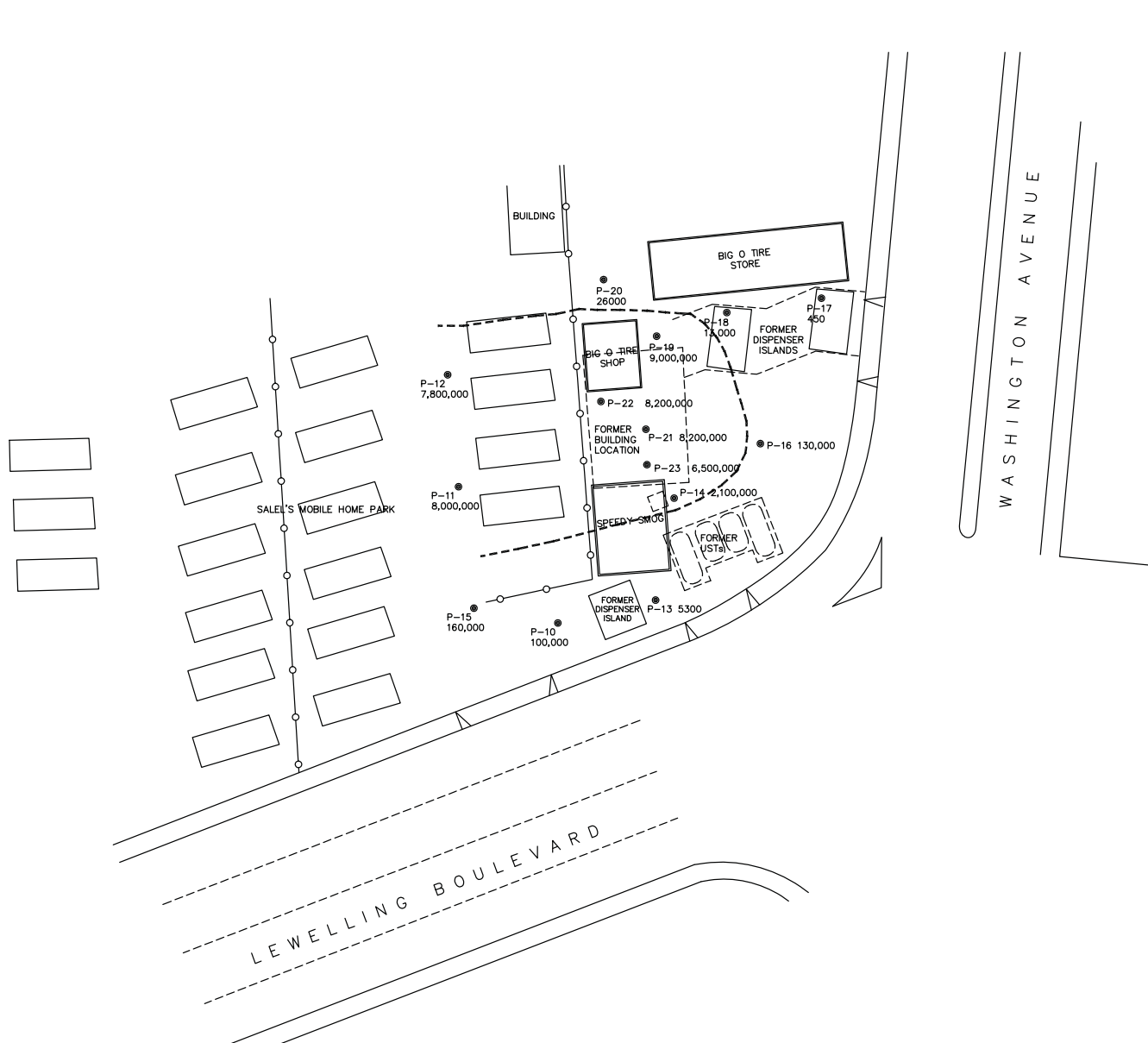
2-Propanol= Isopropyl alcohol

ug/m3 = Microgram per cubic meter

<n = Not detected, below method detection limit

D = Duplicate sample

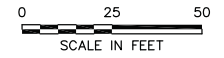
LD = Lab duplicate



LEGEND

1,000,000 ● DETECTED TPH-g CONCENTRATIONS µg/m³

--- APPROXIMATE TPH-g 100,000 µg/m³ CONCENTRATION ISOCONTOUR



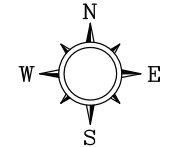
DELTA CONSULTANTS

SHELL OIL PRODUCTS U.S.
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

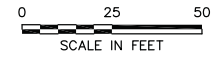
FIGURE 3

TPH-G CONCENTRATIONS AND
TPH -g > 1,000,000 µg/m³ ISOCONTOUR MAP
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

PROJECT NUMBER SCA15275-1
 DRAWN BY AD 6/19/08
 CHECKED BY
 APPROVED BY



LEGEND
 1,000 $\mu\text{g}/\text{m}^3$ DETECTED BENZENE CONCENTRATIONS $\mu\text{g}/\text{m}^3$
 --- APPROXIMATE BENZENE CONCENTRATION 1000 $\mu\text{g}/\text{m}^3$ CONCENTRATION ISOCONTOUR



DELTA CONSULTANTS
 SHELL OIL PRODUCTS U.S.
 FORMER SHELL-BRANDED SERVICE STATION
 SAN LEANDRO, CALIFORNIA

FIGURE 4
 BENZENE CONCENTRATIONS AND
 BENZENE > 1,000 $\mu\text{g}/\text{m}^3$ ISOCONTOUR MAP
 15275 WASHINGTON AVENUE
 SAN LEANDRO, CALIFORNIA

TABLE 5

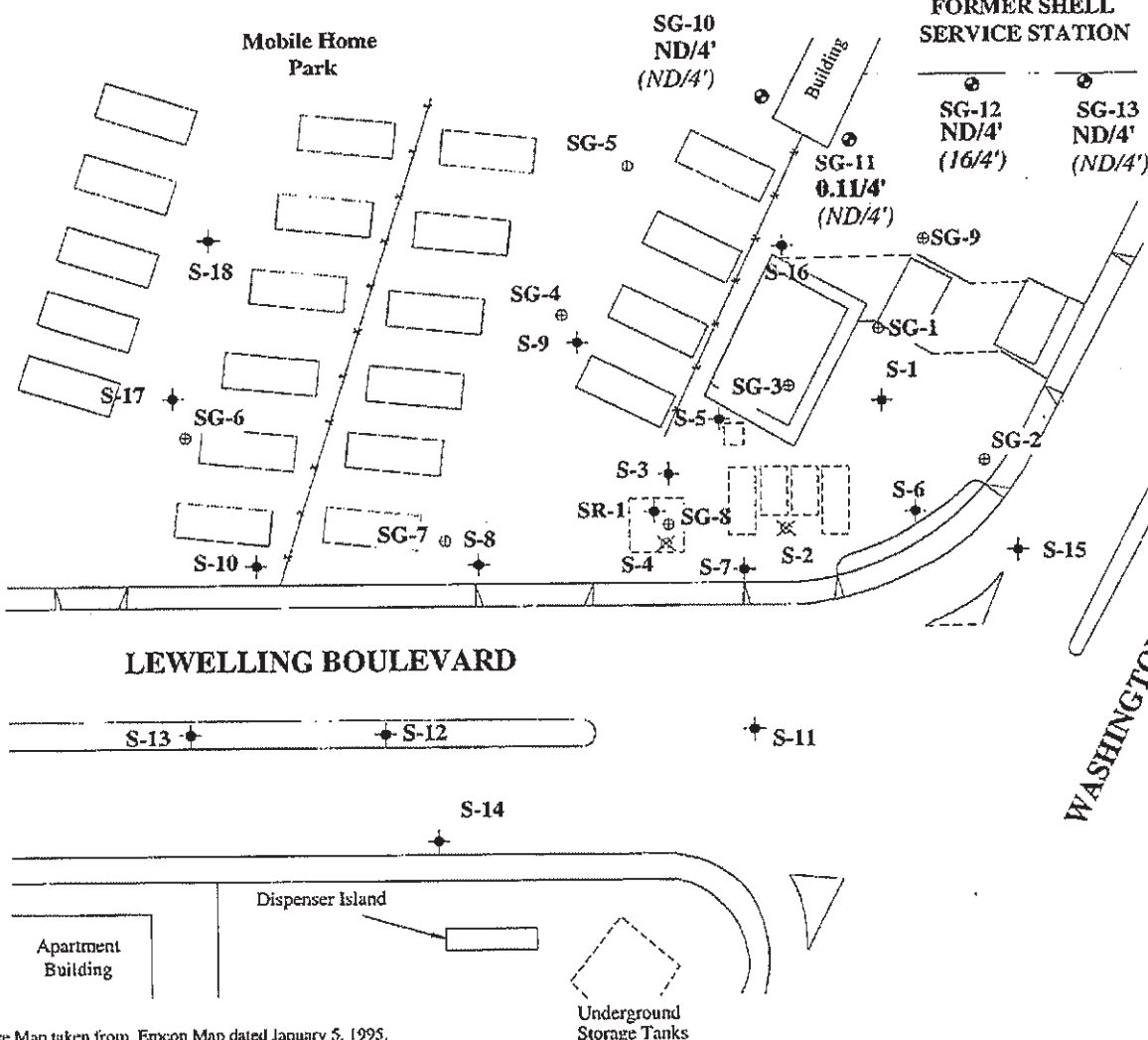
SOIL GAS SURVEY ANALYTICAL DATA
 Shell Oil Products Company
 15275 Washington Avenue
 San Leandro, CA
 WIC# 204-6852-1008

Sample Depth (ft)	Date Sampled	TPPH ($\mu\text{g}/\text{m}^3$)	B ($\mu\text{g}/\text{m}^3$)	T ($\mu\text{g}/\text{m}^3$)	E ($\mu\text{g}/\text{m}^3$)	X ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Comments
SG-10-4								
4	31-Jul-97	1700	<7.0	11	<9.5	22	11	
SG-11-4								
4	31-Jul-97	660	<6.7	<7.9	<9.0	<9.0	<7.5	
SG-12-4								
4	31-Jul-97	5000	16	<8.3	13	22	29	
SG-13-4								
4	31-Jul-97	5000	<71	<84	<97	<97	<81	

Abbreviations:

<x = Not detected at detection limit of x

NA = Not analyzed or not available



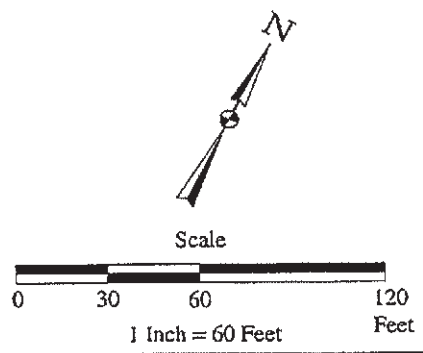
EXPLANATION

- ✦ Groundwater Monitoring Well
- ✕ Abandoned Groundwater Monitoring Well
- ⊙ Weiss Associates Soil Boring
- ⊙ Enviros Soil Boring (31-Jul-97)

0.11/4'
Benzene/Depth in feet. Concentration in soil in parts per million.

(0.11/4')
Benzene/Depth in feet. Vapor concentration in soil in ug/cubic meter

ND None Detected



Base Map taken from Emxon Map dated January 5, 1995.

PLATE **2** SITE MAP / BENZENE CONCENTRATION MAP
 Shell Oil Products Company
 15275 Washington Avenue
 San Leandro, California

enviros
 95276.01

Drawn By: DML Date: 7-22-97 Approved By:  Date: 8-13-97

Table 1. Soil Vapor Survey Data
Former Shell Service Station, WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Date sampled	Air Toxics ID	Date Analyzed	Air Toxics LTD Data (ug/m ³)						InterPhase Data (ug/m ³)						InterPhase Data (%)				Comments
					TPH (C ₁ as gas)	MIBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	VH (C ₁ -C ₆ as gas)	Benzene	Toluene	Ethylbenzene	m-and p-Xylene	o-Xylene	Carbon Dioxide	Oxygen	Nitrogen	Methane	
SG-01-4ft-1	4 ft	5/4/93	97050718-02A	5/29/93	100,000,000	700,000	750,000	280,000	370,000	1,300,000	78,000,000	910,000	110,000	70,000	160,000	40,000	19.7%	3.9%	68.6%	7.8%	Good flow, light soil
SG-02-2ft	2 ft	5/4/93	97050718-03A	5/29/93	46,000	73	250	95	250	880	< 5,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	9.2%	11.3%	79.5%	< 0.1%	No flow, sample collected at 2 ft
SG-03-2ft	2 ft	5/4/93	97050718-04A	5/29/93	54,000,000	260,000	390,000	190,000	370,000	310,000	20,000,000	280,000	57,000	44,000	34,000	15,000	15.8%	3.8%	78.9%	1.6%	Good flow, gravel
SG-03-4ft-1	4 ft	5/4/93	97050718-05A	5/29/93	33,000,000	150,000	230,000	110,000	210,000	330,000	3,700,000	49,000	12,000	7,400	4,300	< 1,000	1.6%	18.1%	80.3%	< 0.1%	Somewhat restricted flow
SG-03-6ft	6 ft	5/4/93	97050718-06A	5/29/93	5,000,000	16,000	37,000	18,000	71,000	190,000	44,000,000	79,000	88,000	400,000	190,000	57,000	4.7%	16.4%	78.9%	< 0.1%	Somewhat restricted flow
SG-04-2ft	2 ft	5/4/93	97050718-08A	5/29/93	220,000	310	420	150	1,700	3,200	110,000	1,600	< 1,000	< 1,000	< 1,000	< 1,000	0.7%	19.8%	79.4%	< 0.1%	Pretty good/medium flow
SG-04-4ft	4 ft	5/4/93	97050718-07A	5/29/93	350,000	550	1,000	2,300	2,600	4,400	370,000	2,900	< 1,000	2,500	2,000	< 1,000	1.4%	19.2%	79.4%	< 0.1%	
SG-04-6ft	6 ft	5/4/93	97050718-09A	5/29/93	310,000	200	1,000	2,200	4,000	4,800	490,000	2,800	3,400	7,100	1,500	7,900	1.2%	19.8%	79.3%	< 0.1%	Medium flow
SG-04-6ft (dup)	6 ft	5/4/93	NA	5/29/93	NA	NA	NA	NA	NA	NA	500,000	3,000	4,000	7,200	1,700	5,000	1.0%	19.2%	79.8%	< 0.1%	Medium flow
SG-05-4ft-1	4 ft	5/4/93	97050718-17A	5/29/93	8,700,000	6,200	20,000	42,000	76,000	130,000	26,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	0.3%	20.3%	79.4%	< 0.1%	Very light
SG-05-4ft	4 ft	5/4/93	97050718-16A	5/29/93	66,000	22	6	150	360	790	< 5,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	0.3%	19.9%	79.6%	< 0.1%	Good flow
SG-07-2ft	2 ft	5/4/93	97050718-10A	5/29/93	62,000,000	330,000	220,000	210,000	230,000	110,000	700,000	38,000	1,400	14,000	< 1,000	< 1,000	0.9%	19.7%	79.6%	< 0.1%	Good flow
SG-07-4ft	4 ft	5/4/93	97050718-11A	6/2/93	130,000,000	510,000	450,000	420,000	440,000	180,000	38,000,000	18,000	40,000	43,000	12,000	5,000	13.4%	9.5%	67.9%	9.3%	Good flow, high permeability
SG-07-6ft	6 ft	5/4/93	97050718-12A	5/29/93	3,000,000	17,000	19,000	6,500	20,000	6,600	2,000,000	13,000	7,400	< 10,000	< 10,000	< 10,000	1.9%	18.7%	78.5%	1.0%	Low flow/very low permeability
SG-07-6ft (dup)	6 ft	5/4/93	97050718-12AA	5/29/93	3,400,000	19,000	21,000	7,300	22,000	7,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Low flow/very low permeability
SG-08-2ft	2 ft	5/5/93	97050718-13A	5/29/93	15,000	22	10	38	190	220	< 5,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	0.1%	20.6%	79.3%	< 0.1%	Good flow
SG-08-4ft	4 ft	5/5/93	97050718-14A	5/29/93	7,100,000	3,200	15,000	46,000	44,000	62,000	2,400,000	< 1,000	64,000	7,400	10,000	4,300	12.6%	4.8%	82.7%	< 0.1%	Good flow
SG-08-6ft	6 ft	5/5/93	97050718-15A	5/29/93	20,000,000	8,400	49,000	130,000	140,000	290,000	1,000,000	< 1,000	35,000	3,500	5,000	5,800	0.3%	20.0%	79.7%	< 0.1%	Low flow, a little lighter than 2 ft and 4 ft depth
SG-08-6ft (dup)	6 ft	5/4/93	NA	5/29/93	NA	NA	NA	NA	NA	NA	1,100,000	< 1,000	36,000	4,000	5,700	5,800	0.2%	20.0%	79.8%	< 0.1%	Low flow, a little lighter than 2 ft and 4 ft depth
SG-09-4ft	4 ft	5/4/93	97050718-18A	5/29/93	540,000	1,600	18,000	610	17,000	15,000	1,800,000	87,000	10,000	28,000	20,000	1,300	0.9%	20.0%	79.1%	< 0.1%	Pretty good flow
AVERAGES					23,763,722	112,365	123,536	81,408	112,110	163,633	10,221,632	78,489	24,958	34,374	24,326	8,732	4.5%	16.0%	78.6%	1.1%	
QA/QC Samples																					
AMB-01		5/4/93	9705071A-01A	5/15/93	< 10,000	< 4,000	< 1,000	< 1,000	< 1,000	< 1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Air Toxics Ambient Air Sample
Ambient Air		5/4/93	NA	NA	NA	NA	NA	NA	NA	NA	< 5,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 0.1%	21.0%	79.0%	< 0.1%	InterPhase Ambient Air Sample
Ambient Air		5/5/93	NA	NA	NA	NA	NA	NA	NA	NA	< 5,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 0.1%	20.8%	79.2%	< 0.1%	InterPhase Ambient Air Sample
Lab Blank		NA	9705071A-02A	5/15/93	< 5,000	< 2,000	< 500	< 500	< 500	< 500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Air Toxics Laboratory Blank
Lab Blank		NA	9705071B-20A	5/29/93	NA	< 4	< 3	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Air Toxics Laboratory Blank
Lab Blank		NA	9705071B-20B	6/2/93	NA	< 4	< 3	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Air Toxics Laboratory Blank

Notes: < - Below the method detection limit.
M - reported value may be biased due to apparent matrix interferences.

(Samples collected March 1997)

Table 2. Soil Vapor Survey Data: Sorted by Depth
Former Shell Service Station WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Air Toxics LTD Data (ug/m ³)						InterPhase Data (%)				Comments
		TPH (C ₁₀ as Gas)	MIBE	Benzene	Toluene	Ethylbenzene	m,p,c-Xylene	Carbon Dioxide	Oxygen	Nitrogen	Methane	
SG-02-2ft	2 ft	46,000	73	250	96	250	880	9.2%	11.3%	79.5%	< 0.1%	No flow, sample collected at 2 ft
SG-03-2ft	2 ft	54,000,000	260,000	390,000	190,000	370,000	310,000	15.8%	3.8%	78.9%	1.6%	Good flow, gravel
SG-04-2ft	2 ft	220,000	310	420	150	1,700	3,200	0.7%	19.8%	79.4%	< 0.1%	Pretty good/medium flow
SG-07-2ft	2 ft	62,000,000	330,000	220,000	210,000	230,000	110,000	0.9%	19.7%	79.4%	< 0.1%	Good flow
SG-08-2ft	2 ft	15,000	22	10	38	190	220	0.1%	20.6%	79.3%	< 0.1%	Good flow
Mean:	2 ft	23,256,200	118,081	122,136	80,057	120,428	84,860	5.3%	15.0%	79.3%	0.4%	
SG-01-4ft	4 ft	100,000,000	700,000	750,000	280,000	370,000	1,300,000	19.7%	3.9%	68.6%	7.8%	Good flow, tight soil
SG-03-4ft	4 ft	33,000,000	150,000	230,000	110,000	210,000	330,000	1.6%	18.1%	80.3%	< 0.1%	Somewhat restricted flow
SG-04-4ft	4 ft	350,000	550	1,000	2,300	2,600	4,400	1.4%	19.2%	79.4%	< 0.1%	
SG-05-4ft	4 ft	8,700,000	6,200	20,000	42,000	75,000	130,000	0.5%	20.3%	79.4%	< 0.1%	Very tight
SG-06-4ft	4 ft	66,000	22	8	150	380	790	0.5%	19.9%	79.6%	< 0.1%	Good flow
SG-07-4ft	4 ft	130,000,000	510,000	450,000	420,000	440,000	180,000	13.4%	9.5%	67.9%	9.3%	Good flow, high permeability
SG-08-4ft	4 ft	7,100,000	3,200	15,000	46,000	44,000	62,000	12.6%	4.8%	82.7%	< 0.1%	Good flow
SG-09-4ft	4 ft	540,000	1,600	18,000	610	17,000	15,000	0.9%	20.0%	79.1%	< 0.1%	Pretty good flow
Mean:	4 ft	34,969,500	171,447	185,501	112,633	144,873	252,774	6.3%	14.5%	77.1%	2.2%	
SG-03-6ft	6 ft	5,000,000	16,000	39,000	18,000	71,000	190,000	4.7%	16.4%	78.9%	< 0.1%	Somewhat restricted flow
SG-04-6ft	6 ft	310,000	200	1,000	2,200	4,000	4,800	1.2%	19.5%	79.3%	< 0.1%	Medium flow
SG-04-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	1.0%	19.2%	79.8%	< 0.1%	Medium flow
SG-07-6ft	6 ft	3,000,000	17,000	19,000	6,500	20,000	6,600	1.9%	18.7%	78.5%	1.0%	Low flow/very low permeability
SG-07-6ft (dup)	6 ft	3,400,000	19,000	21,000	7,300	22,000	7,500	NA	NA	NA	NA	Low flow/very low permeability
SG-08-6ft	6 ft	20,000,000	8,400	49,000	130,000	140,000	290,000	0.3%	20.0%	79.7%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft depths
SG-08-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	0.2%	20.0%	79.8%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft depths
Mean:	6 ft	6,342,000	12,120	25,800	32,800	51,400	99,780	1.6%	19.0%	79.3%	0.3%	

Notes: < - Below the method detection limit.
M - reported value may be biased due to apparent matrix interferences.

(Samples collected March 1997)

Table 3. Soil Vapor Survey Data: Sorted by Location
Former Shell Service Station WIC #204-6852-1008, 15275 Washington Avenue, San Leandro, California

WA Sample ID	Depth below ground surface	Air Toxics LTD Data (ug/m ³)						InterPhase Data (%)				Comments
		IPH (C ₁ + as gas)	MTBE	Benzene	Toluene	Ethylbenzene	m,p,o-Xylene	Carbon Dioxide	Oxygen	Nitrogen	Methane	
SG-01-4ft	4 ft	100,000,000	700,000	750,000	280,000	370,000	1,300,000	19.7%	3.9%	68.6%	7.8%	Good flow, tight soil
SG-02-2ft	2 ft	46,000	73	250	96	250	880	9.2%	11.3%	79.5%	< 0.1%	No flow, sample collected at 2 ft
SG-03-2ft	2 ft	54,000,000	260,000	390,000	190,000	370,000	370,000	15.8%	3.8%	78.9%	1.6%	Good flow, gravel
SG-03-4ft	4 ft	33,000,000	150,000	230,000	110,000	210,000	330,000	1.6%	18.1%	80.3%	< 0.1%	Somewhat restricted flow
SG-03-6ft	6 ft	5,000,000	16,000	39,000	18,000	71,000	190,000	4.7%	16.4%	78.9%	< 0.1%	Somewhat restricted flow
SG-04-2ft	2 ft	220,000	310	420	150	1,700	3,200	0.7%	19.8%	79.4%	< 0.1%	Pretty good/medium flow
SG-04-4ft	4 ft	350,000	550	1,000	2,300	2,600	4,400	1.4%	19.2%	79.4%	< 0.1%	
SG-04-6ft	6 ft	310,000	200	1,000	2,200	4,000	4,800	1.2%	19.5%	79.3%	< 0.1%	Medium flow
SG-04-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	1.0%	19.2%	79.8%	< 0.1%	Medium flow
SG-05-4ft	4 ft	8,700,000	6,200	20,000	42,000	75,000	130,000	0.3%	20.3%	79.4%	< 0.1%	Very tight
SG-06-4ft	4 ft	66,000	22	8	150	380	790	0.5%	19.9%	79.6%	< 0.1%	Good flow
SG-07-2ft	2 ft	62,000,000	330,000	220,000	210,000	230,000	110,000	0.9%	19.7%	79.4%	< 0.1%	Good flow
SG-07-4ft	4 ft	130,000,000	510,000	450,000	420,000	440,000	180,000	13.4%	9.5%	67.9%	9.3%	Good flow, high permeability
SG-07-6ft	6 ft	3,000,000	17,000	19,000	6,500	20,000	6,500	1.9%	18.7%	78.5%	1.0%	Low flow/very low permeability
SG-07-6ft (dup)	6 ft	3,400,000	19,000	21,000	7,300	22,000	7,500	NA	NA	NA	NA	Low flow/very low permeability
SG-08-2ft	2 ft	15,000	22	10	38	190	220	0.1%	20.6%	79.3%	< 0.1%	Good flow
SG-08-4ft	4 ft	7,100,000	3,200	15,000	46,000	44,000	62,000	12.6%	4.8%	82.7%	< 0.1%	Good flow
SG-08-6ft	6 ft	20,000,000	8,400	49,000	190,000	140,000	290,000	0.3%	20.0%	79.7%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft dept
SG-08-6ft (dup)	6 ft	NA	NA	NA	NA	NA	NA	0.2%	20.0%	79.8%	< 0.1%	Low flow, a little tighter than 2 ft and 4 ft dept
SG-09-4ft	4 ft	540,000	1,600	18,000	610	17,000	15,000	0.9%	20.0%	79.1%	< 0.1%	Pretty good flow

Notes: < - Below the method detection limit.

M - reported value may be biased due to apparent matrix interferences.

(Sampled October 4, 1988 by Tracer Corporation)

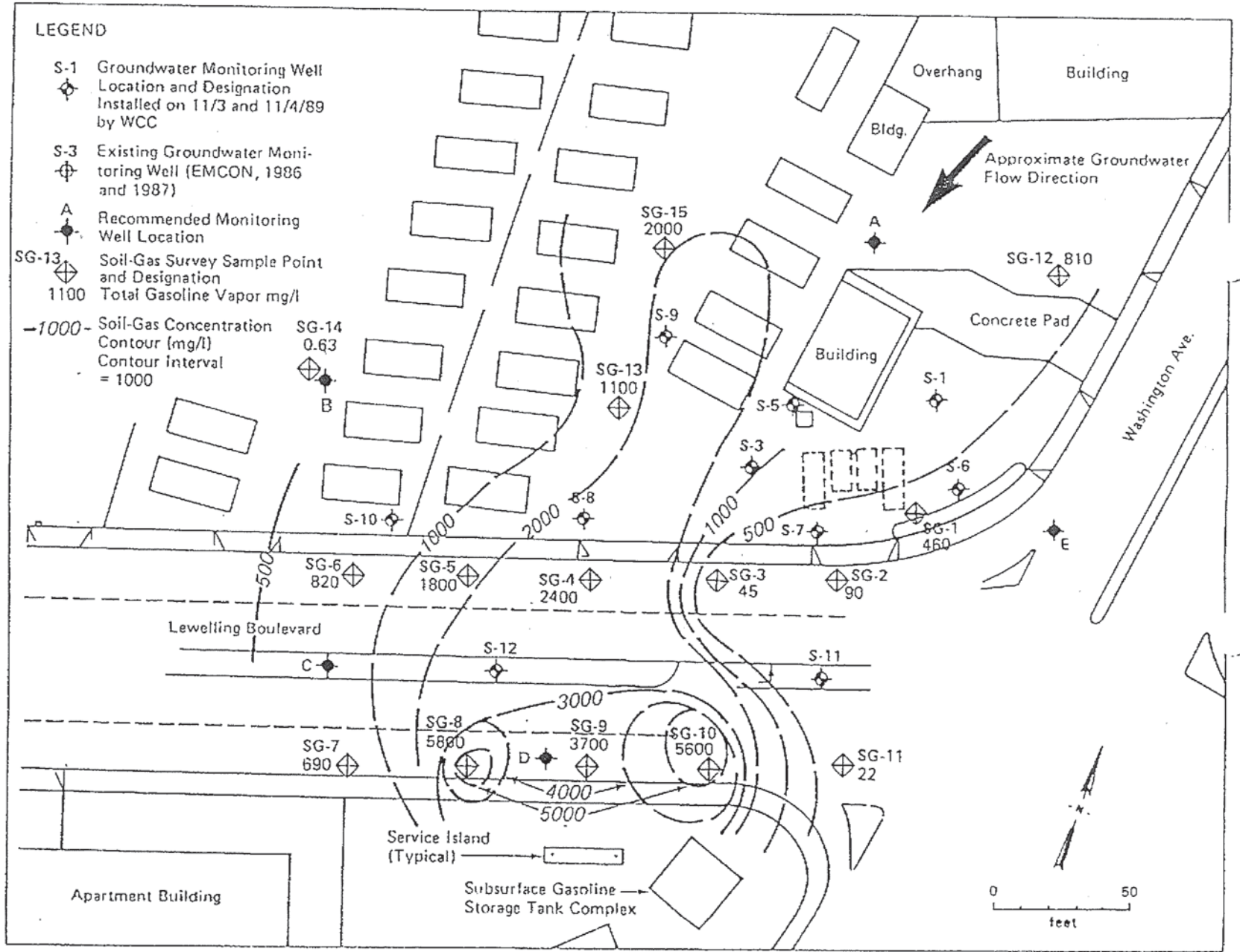
Project No.
8820011A

Gettler · Ryan

Woodward-Clyde Consultants

SOIL-GAS SURVEY CONTOUR MAP
SHELL SERVICE STATION
LEWELLING BLVD. AND WASHINGTON AVE.
SAN LEANDRO, CALIFORNIA

Figure
5



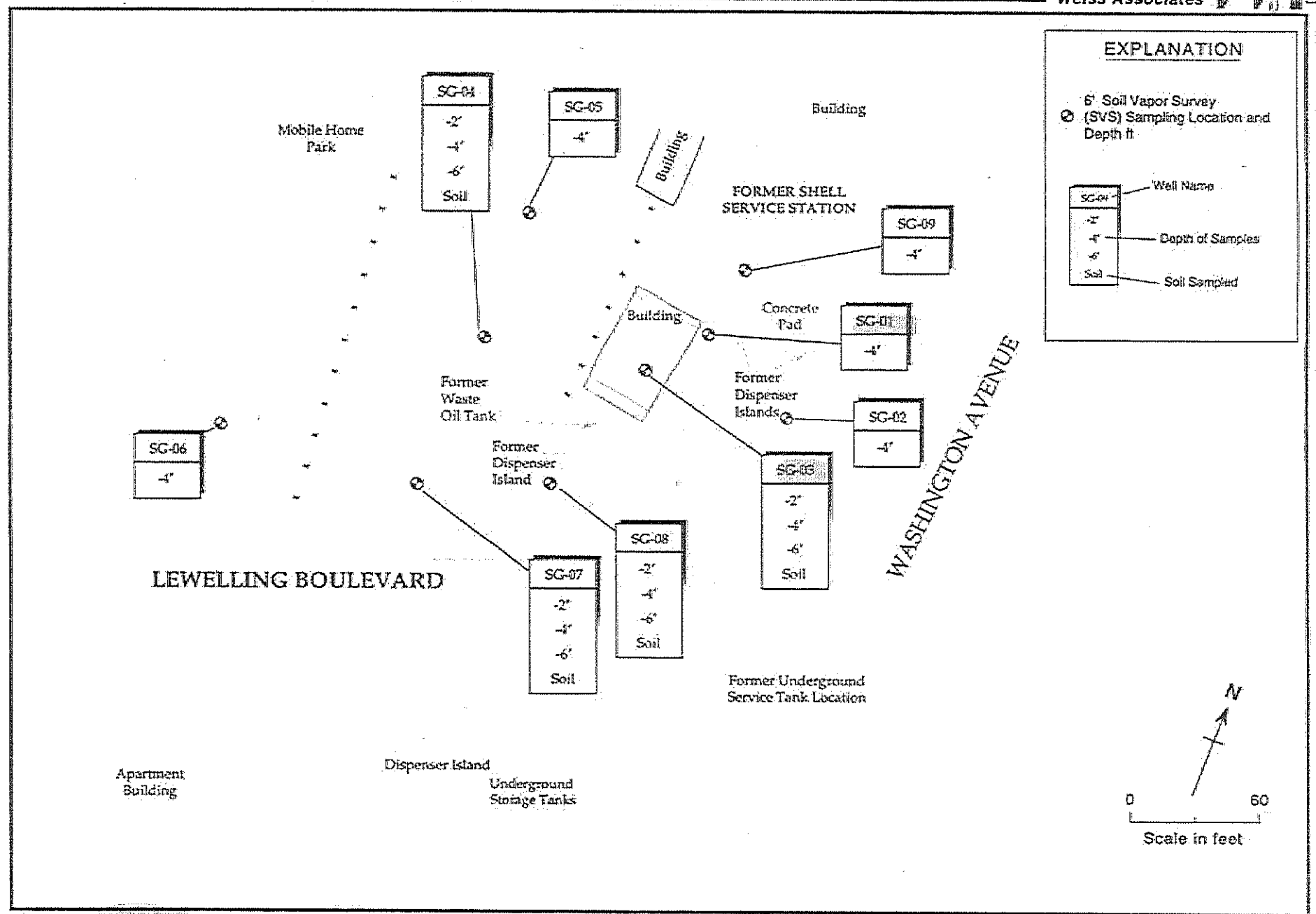


Figure 3. SVS Sampling Locations - Shell Oil Company, 15275 Washington Avenue, San Leandro, California

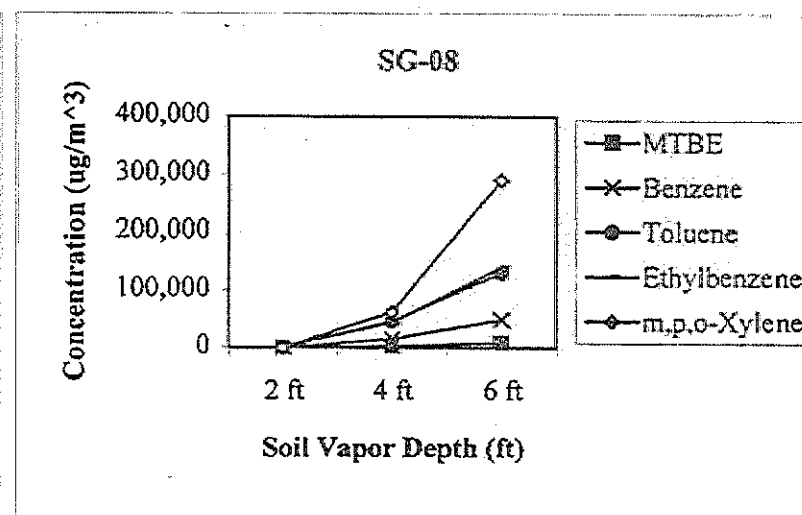
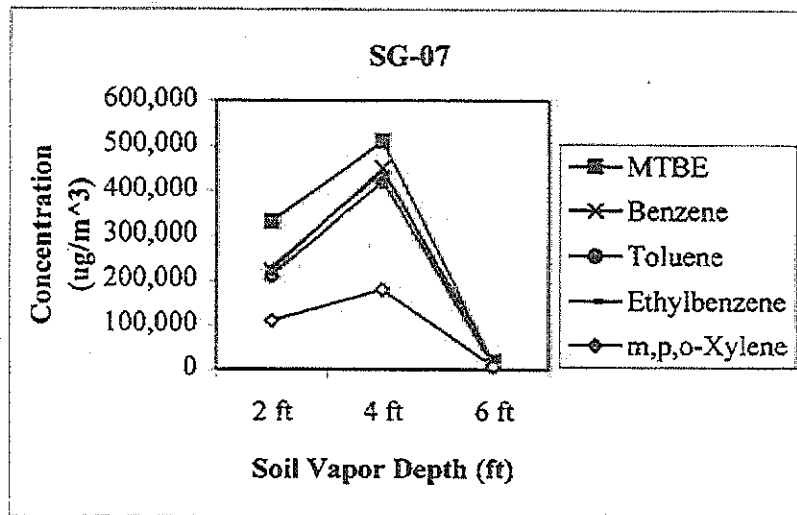
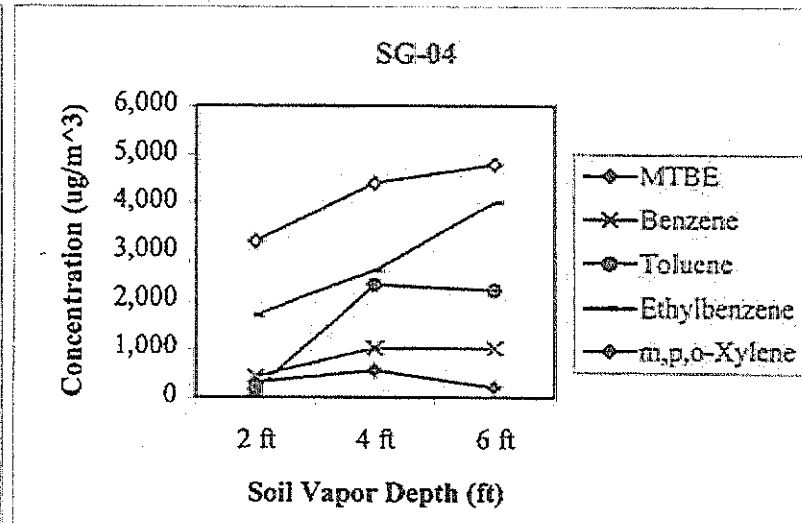
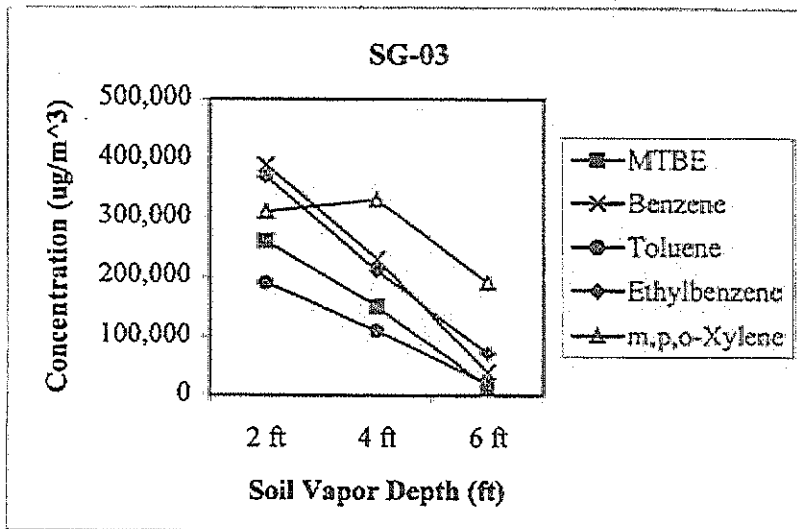


Figure 4. Benzene, Toluene, Ethylbenzene and Xylenes Soil Vapor Concentrations by Depth.

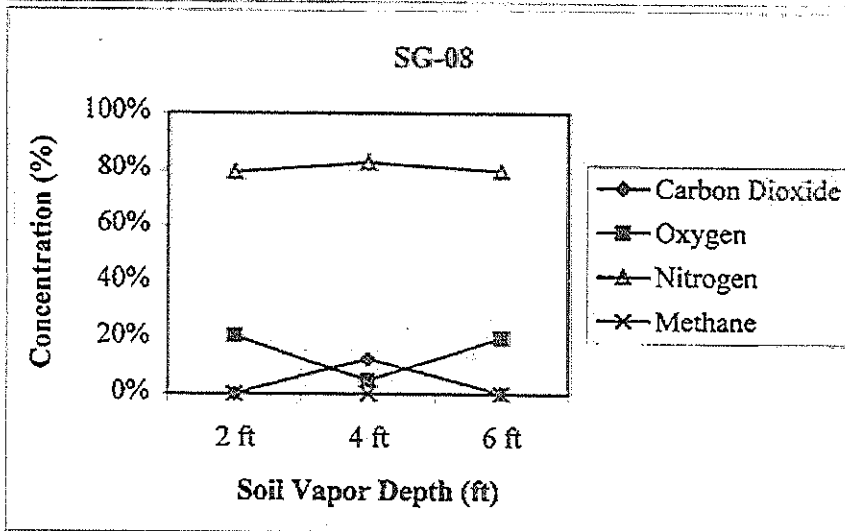
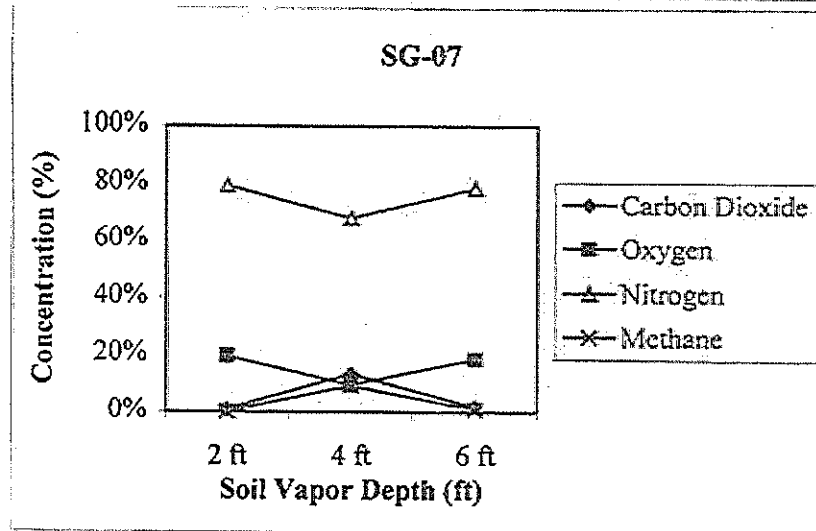
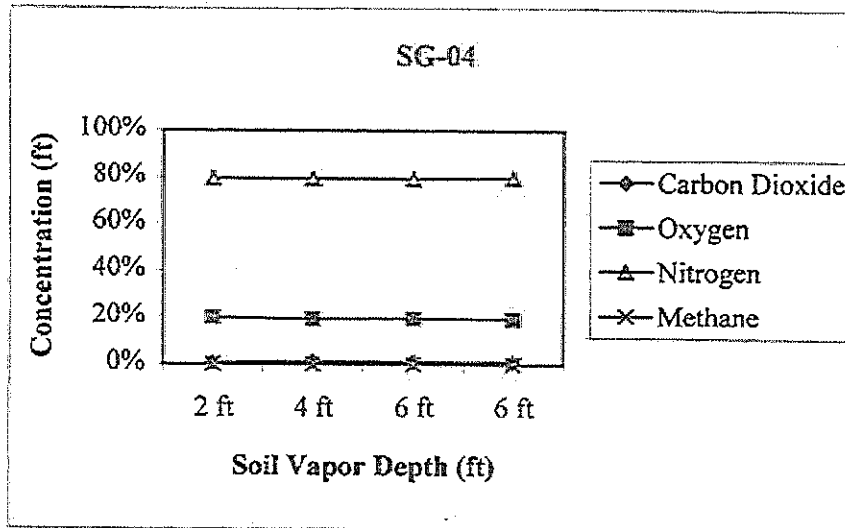
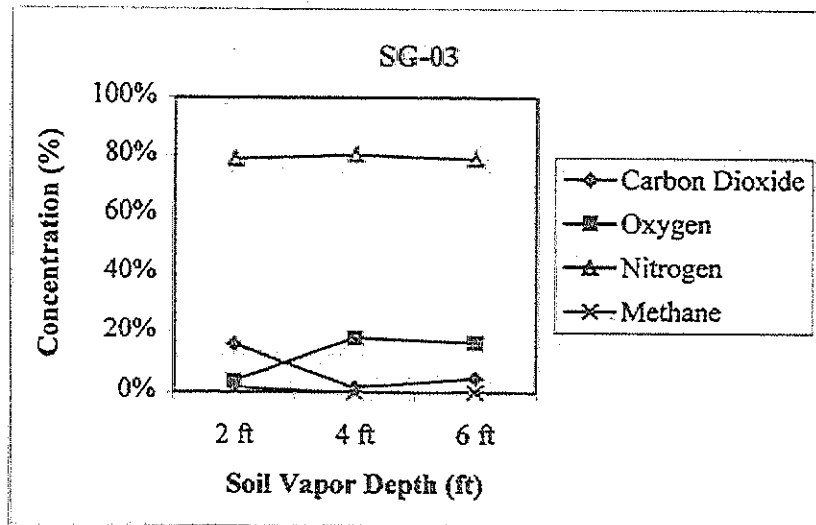


Figure 5. Carbon Dioxide, Oxygen, Nitrogen, and Methane Soil Vapor Concentrations by Depth.

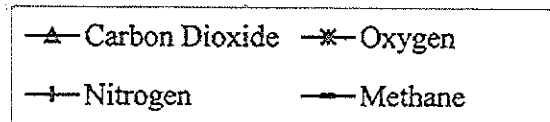
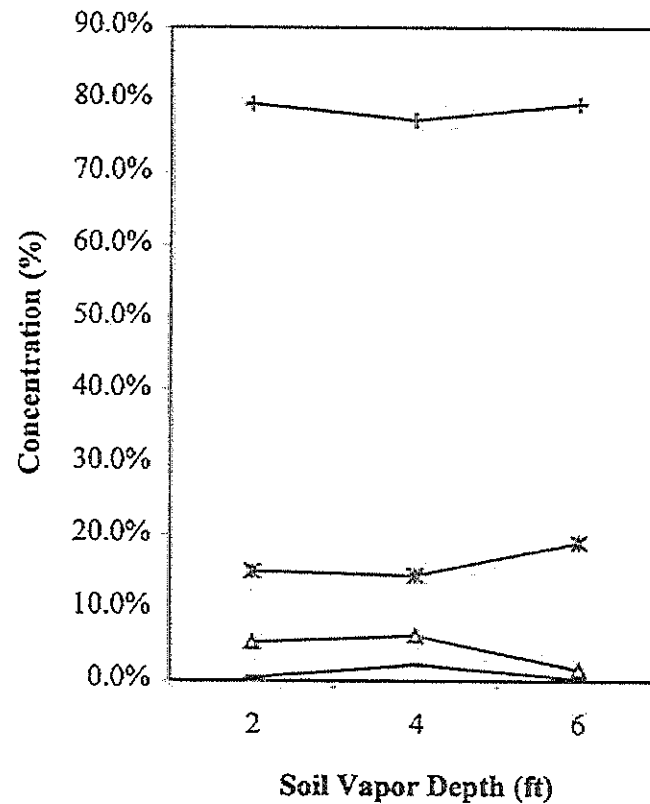
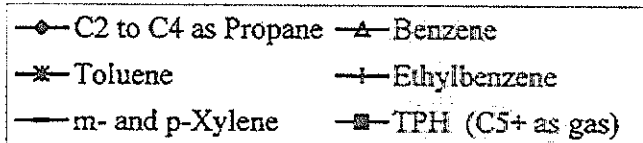
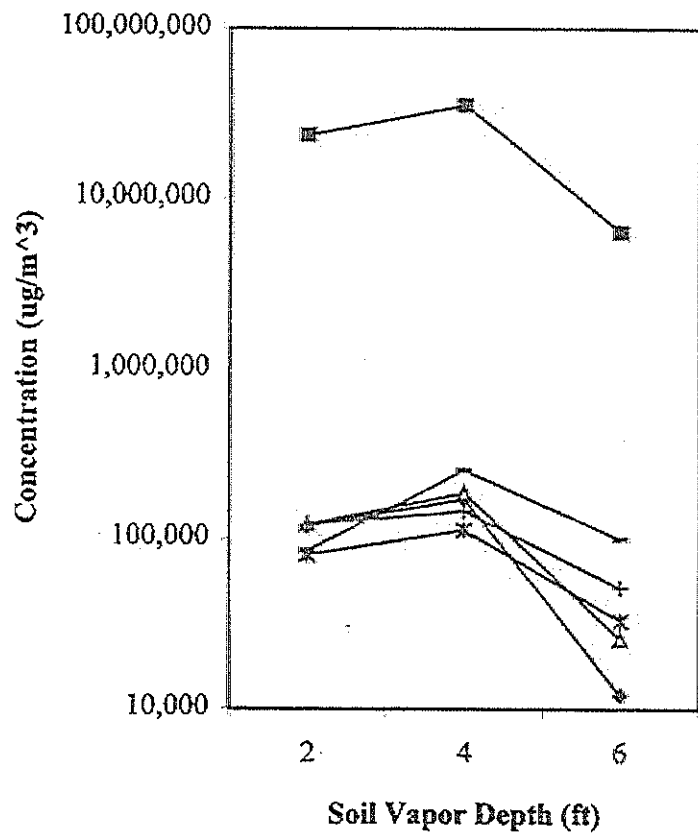


Figure 6. Average Site Concentrations by Depth - Former Shell Service Station, WIC#204-6852-1008, 15275 Washington Avenue, San Leandro, California

APPENDIX G
THIRD QUARTER 2010
GROUNDWATER MONITORING DATA

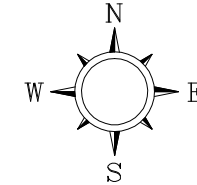
PROJECT NUMBER SCA152751D

APPROVED BY

CHECKED BY

DRAWN BY J.F.F. 9/7/2010

70
35
0
SCALE IN FEET



LEGEND

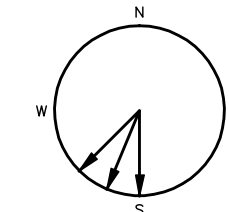
- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
- SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- P-16 SOIL VAPOR SAMPLE LOCATION
- MW-1 GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
- B-38/MW-19 SOIL BORING/GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
- B-1 SOIL GAS BORING/TEMPORARY VAPOR IMPLANT LOCATION (ARCO STATION)
- RW-1 SOIL VAPOR EXTRACTION WELL LOCATION (ARCO STATION)
- (14.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft./MSL)
- 14.00 GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft./MSL)
CONTOUR INTERVAL=0.25 FEET
- 0.003 ft/ft APPROXIMATE GROUNDWATER DIRECTION
- NG NOT GAUGED
- * NOT USED IN CONTOURING ANOMALOUS DATA

NOTES

ARCO STATION GROUNDWATER ELEVATION ADJUSTED BY 2.7 FEET

HISTORICAL GROUNDWATER FLOW DIRECTIONS

DATE	FLOW
1/22/2004	SW
1/27/2006	SW,SSW
7/25/2006	SW,SSW
1/4/2007	SW
7/24/2007	SSW
1/15/2008	S
8/4/2008	S,SSW
1/8/2009	SW
7/21/2009	SSW
1/12/2010	SSW
7/22/2010	SSW



SHELL OIL PRODUCTS
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

**FIGURE 2
GROUNDWATER ELEVATION CONTOUR
MAP**

7/22/2010

15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

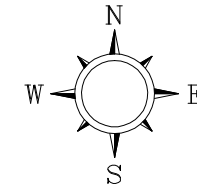
PROJECT NUMBER SCA152751D

APPROVED BY

CHECKED BY

9/7/2010

SCALE IN FEET



LEGEND

- S-6 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- S-1 GROUNDWATER MONITORING WELL MODIFIED FOR SOIL VAPOR EXTRACTION
- SV-1 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- P-16 SOIL VAPOR SAMPLE LOCATION
- MW-1 GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
- B-38/MW-19 SOIL BORING/GROUNDWATER MONITORING WELL LOCATION (ARCO STATION)
- B-1 SOIL GAS BORING/TEMPORARY VAPOR IMPLANT LOCATION (ARCO STATION)
- RW-1 SOIL VAPOR EXTRACTION WELL LOCATION (ARCO STATION)
- TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- ND< NOT DETECTED ABOVE LIMIT NOTED
- µg/L MICROGRAMS PER LITER
- NS NOT SAMPLED
- 0.01 ft/ft APPROXIMATE GROUNDWATER DIRECTION

S-3	
TPH-g (µg/L)	BENZENE (µg/L)
81	ND<0.50

S-9	
TPH-g (µg/L)	BENZENE (µg/L)
7,900	21

S-8	
TPH-g (µg/L)	BENZENE (µg/L)
ND<50	ND<0.50

S-7	
TPH-g (µg/L)	BENZENE (µg/L)
ND<50	ND<0.50

B-36/MW-17	
TPH-g (µg/L)	BENZENE (µg/L)
21,000	160

MW-2	
TPH-g (µg/L)	BENZENE (µg/L)
420	ND<0.50

MW-18	
TPH-g (µg/L)	BENZENE (µg/L)
760	3.5

MW-1	
TPH-g (µg/L)	BENZENE (µg/L)
15,000	54

MW-14	
TPH-g (µg/L)	BENZENE (µg/L)
ND<50	ND<0.50

MW-16	
TPH-g (µg/L)	BENZENE (µg/L)
6,400	34

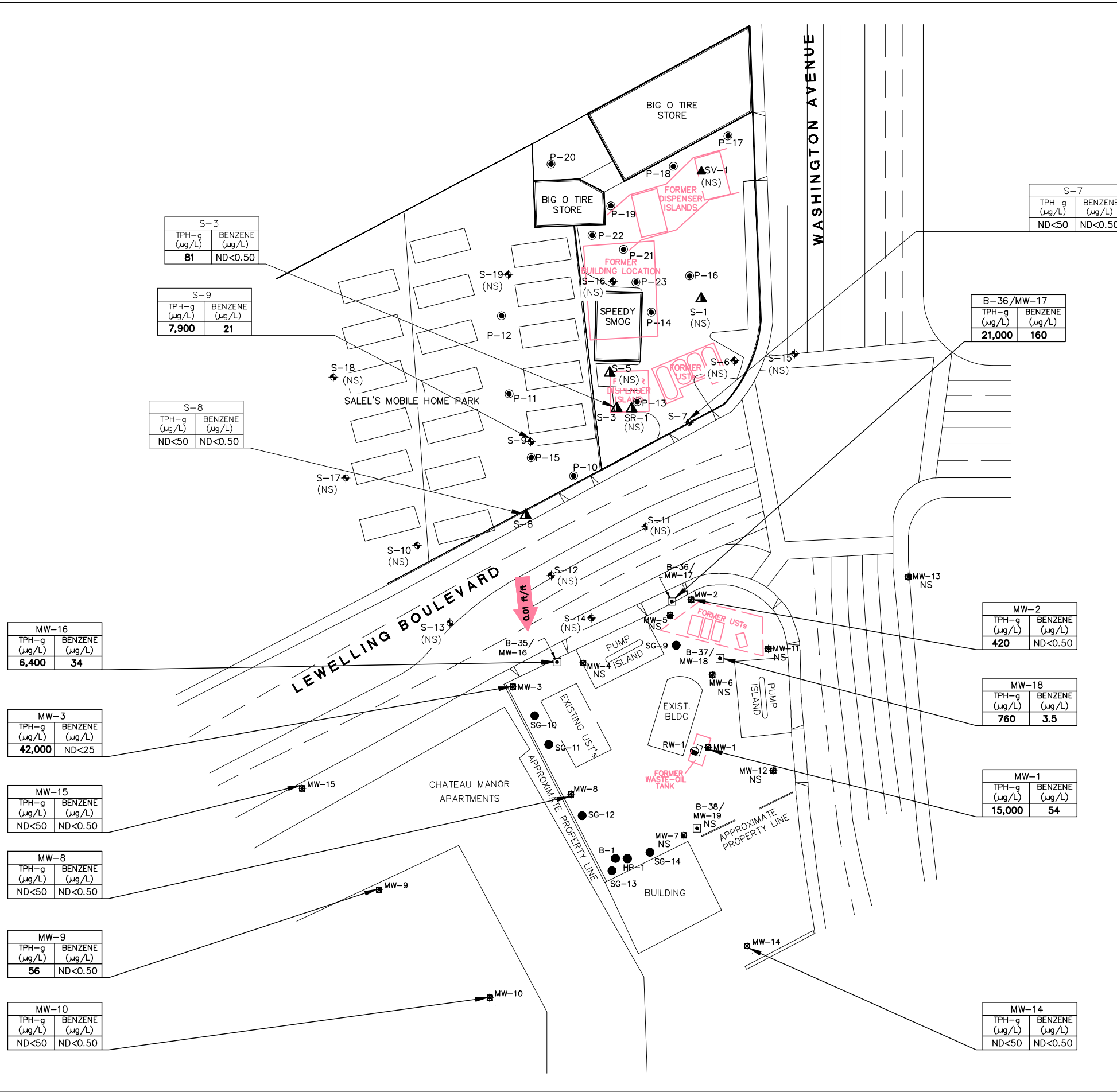
MW-3	
TPH-g (µg/L)	BENZENE (µg/L)
42,000	ND<25

MW-15	
TPH-g (µg/L)	BENZENE (µg/L)
ND<50	ND<0.50

MW-8	
TPH-g (µg/L)	BENZENE (µg/L)
ND<50	ND<0.50

MW-9	
TPH-g (µg/L)	BENZENE (µg/L)
56	ND<0.50

MW-10	
TPH-g (µg/L)	BENZENE (µg/L)
ND<50	ND<0.50



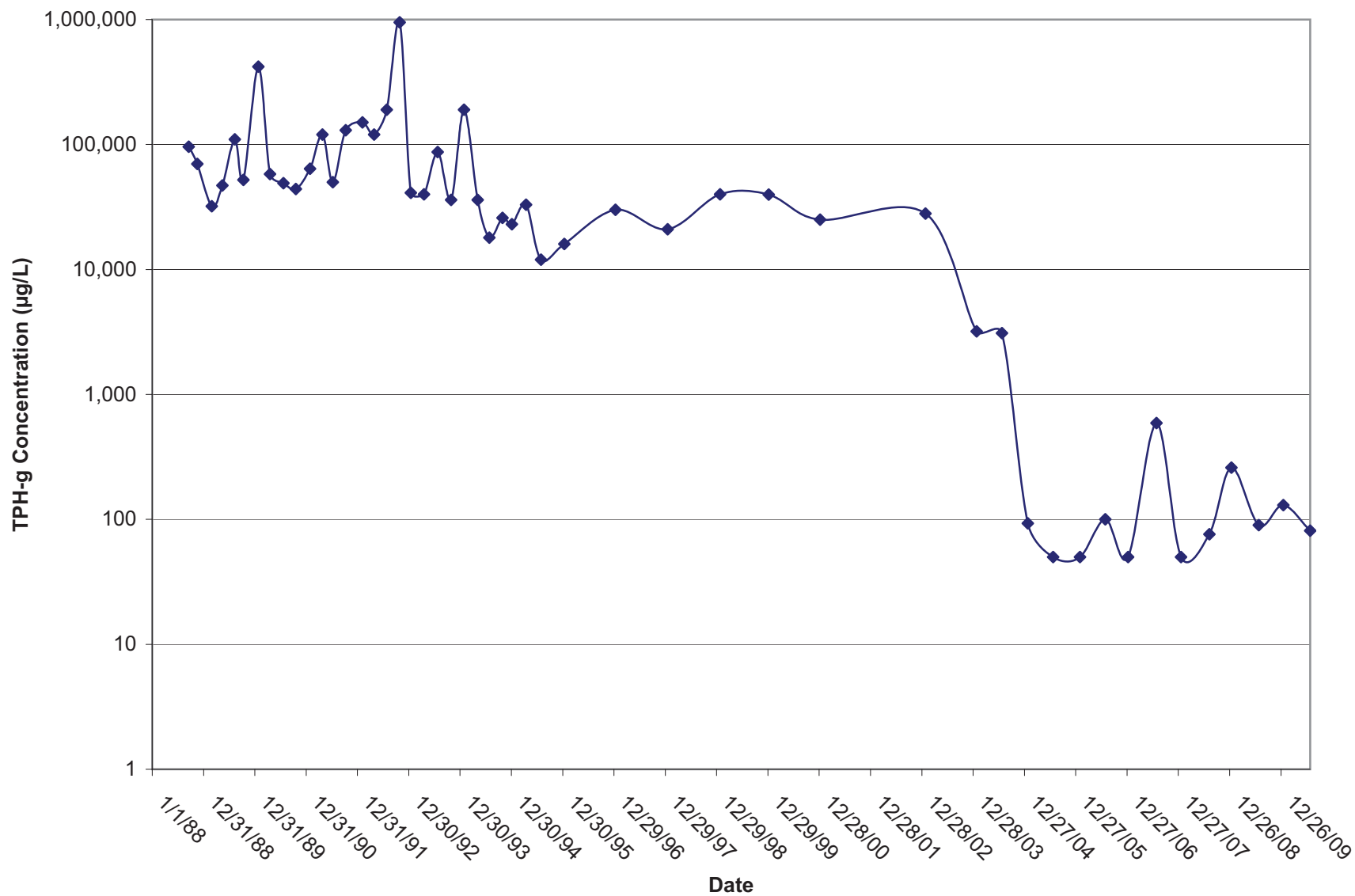
SHELL OIL PRODUCTS
FORMER SHELL-BRANDED SERVICE STATION
SAN LEANDRO, CALIFORNIA

FIGURE 3
HYDROCARBON DISTRIBUTION
IN GROUNDWATER MAP
7/22/2010

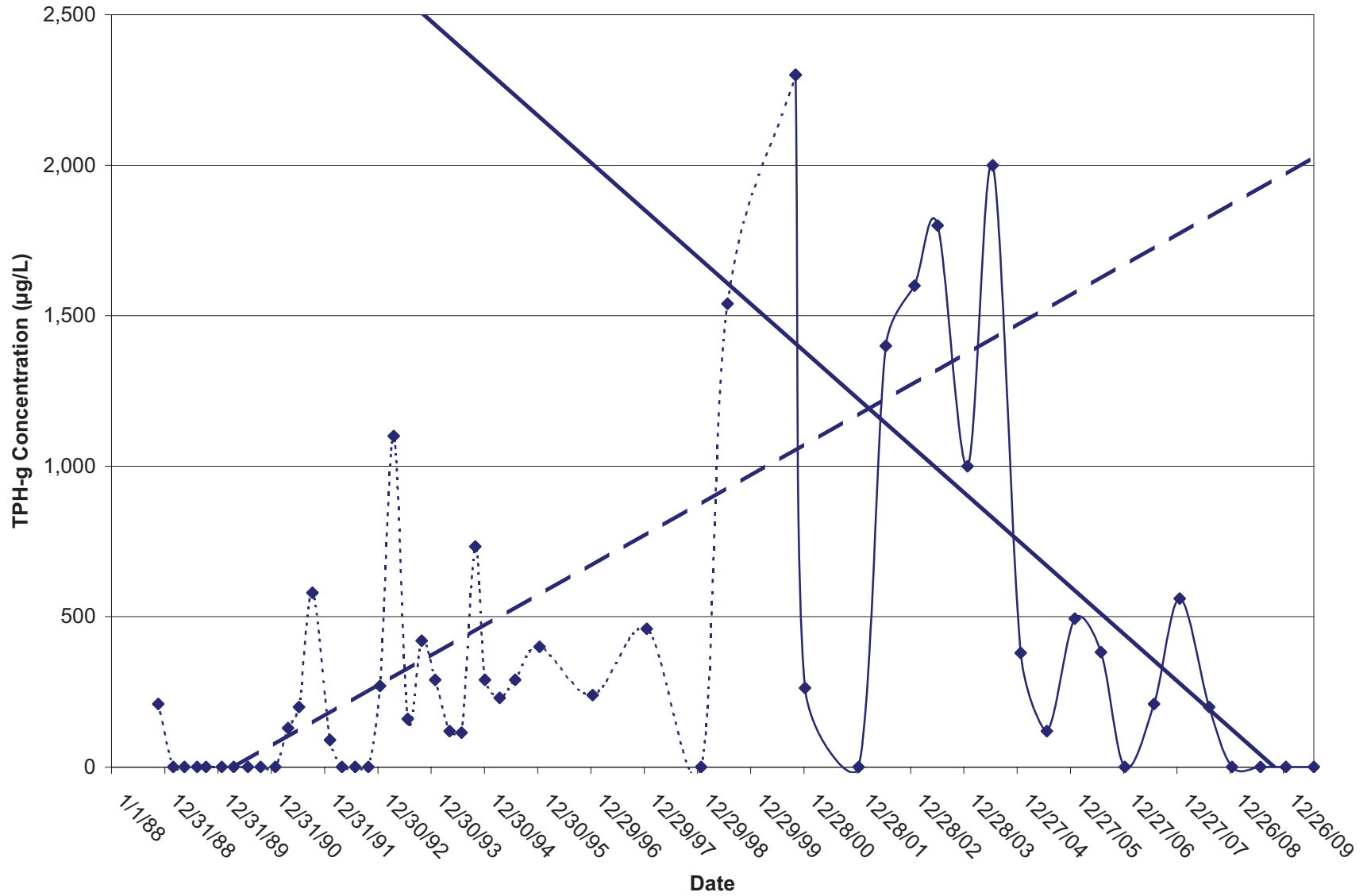
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

APPENDIX H
CONTAMINANT CONCENTRATION TRENDS

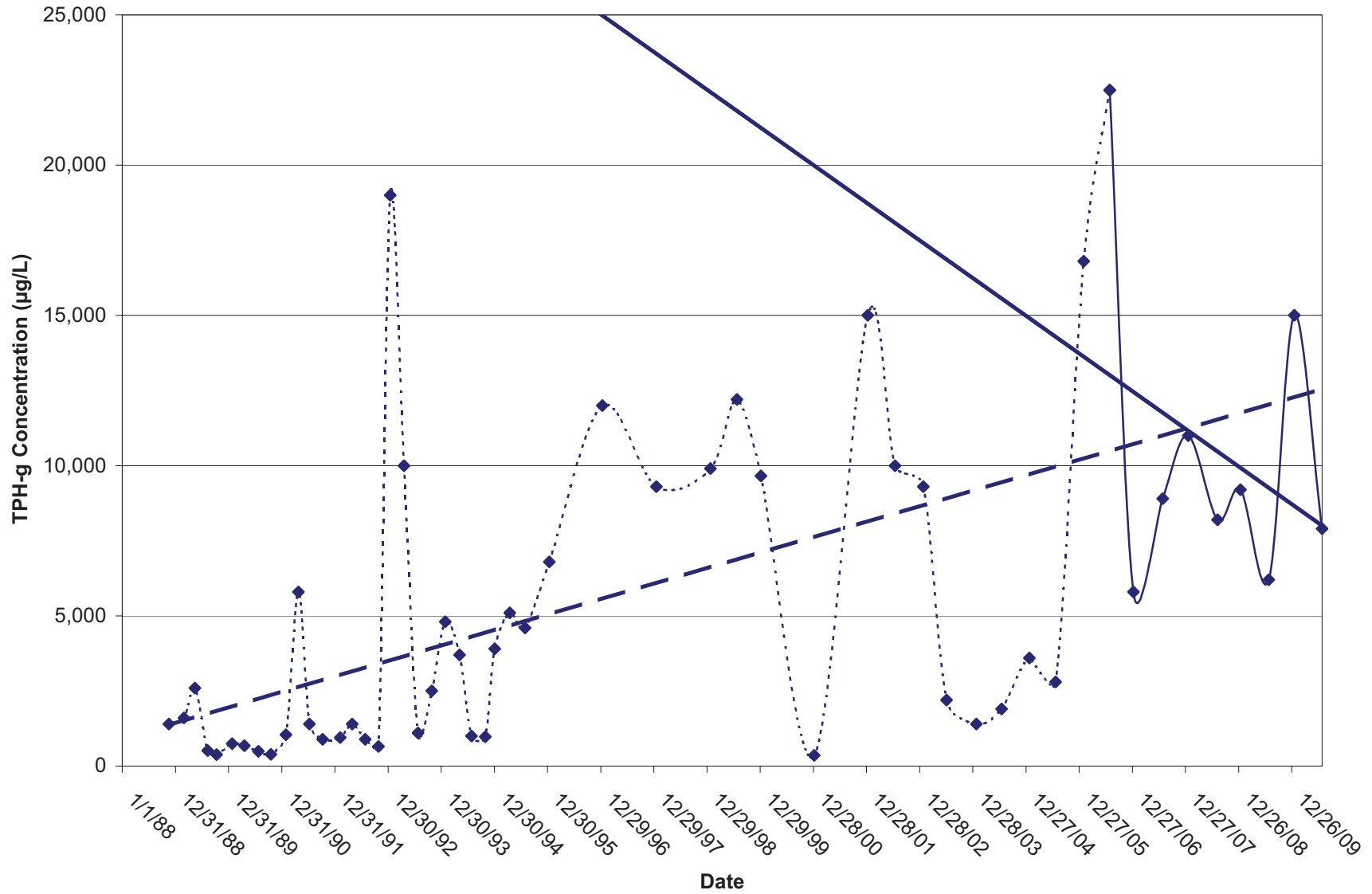
GRAPH 1
TPH-g CONCENTRATION TREND - WELL S-3
Former Shell-branded Service Station
15275 Washington Boulevard
San Leandro, California



GRAPH 2
TPH-g CONCENTRATION TRENDS - WELL S-8
Former Shell-branded Service Station
15275 Washington Boulevard
San Leandro, California



GRAPH 3
TPH-g CONCENTRATION TRENDS - WELL S-9
Former Shell-branded Service Station
15275 Washington Boulevard
San Leandro, California



APPENDIX I
REMEDATION DATA

APPENDIX J
RBCA RISK EVALUATION STUDIES

Main Screen

RBCA Tool Kit for Chemical Releases
Version 2.01 © 2008

1. Project Information

Site Name: Former Shell-branded Service Station
 Location: 15275 Washington Blvd., San Leandro, CA
 Completed By: LD
 Date: 1-Sep-08 Job ID: _____

2. Which Type of RBCA Analysis? (?)

Tier 1

Risk-Based
Screening
Levels

Tier 2/3

Site-Specific
Target Levels

3. Calculation Options (?)

Affects which input data are required

Baseline Risks (Forward mode)

RBCA Cleanup Levels (Backward mode)

Individual Constituent Risk Goals Only

Individual and Cumulative Risk Goals

Apply Source Depletion Algorithm

Time to Future Exposure: (yr)

4. RBCA Evaluation Process

Prepare Input Data
Data Complete? (= yes, = no)

Exposure Pathways

↓

Constituents of Concern (COCs)

↓

Transport Models

↓

Soil Parameters

↓

GW Parameters

↓

Air Parameters

Review Output

Exposure Flowchart

COC Chem. Parameters

Input Data Summary

User-Spec. COC Data...

Transient Domenico Analysis...

Baseline Risks...

Cleanup Levels...

5. Commands and Options

New Site

Load Data...

Save Data As...

User Chemical Database

Set Units

Print Sheet

Print Report

Quit

Help

Site Name: Former Shell-branded Service Station
 Location: 15275 Washington Blvd., San Leandro, CA
 Compl. By: LD

Job ID:
 Date: 1-Sep-08

Commands and Options

Main Screen

Print Sheet

Help

Source Media Constituents of Concern (COCs)

Apply Raoult's Law ?

Selected COCs ?

Representative COC Concentration ?

COC Select: **Sort List:**

Benzene
 TPH - Arom >C08-C10

Groundwater Source Zone

▼

(mg/L) note

Soil Source Zone

▼

(mg/kg) note

Mole Fraction in Source Material

(-)

[View Chemical Parameters](#)

Transport Modeling Options

1. Vertical Transport, Surface Soil Column

Outdoor Air Volatilization Factors

- Surface soil volatilization model only ASTM Model
 Combination surface soil/Johnson & Ettinger models
 Thickness of surface soil zone 3.28 (ft)
 User-specified VF from other model Enter VF Values

Indoor Air Volatilization Factors

- Johnson & Ettinger model for soil and groundwater volatilization
 Johnson & Ettinger for soil, Mass Flux model for groundwater
 User-specified VF from other model Enter VF Values

Soil-to-Groundwater Leaching Factor

- ASTM Model
 Apply Soil Attenuation Model (SAM) Enter Decay Rates
 Allow first-order biodecay
 User-specified LF from other model Enter LF Values

Modeling Options

- Disable Mass Balance Limit
 Apply Dual Equilibrium Desorption Model

2. Lateral Air Dispersion Factor

- 3-D Gaussian dispersion model Off-site 1 Off-site 2
 User-Specified ADF 1.00E+0 1.00E+0 (-)

Site Name: Former Shell-branded Service Station

Job ID:

Location: 15275 Washington Blvd., San Leandro, CA

Date: 1-Sep-08

Compl. By: LD

3. Groundwater Dilution Attenuation Factor

Calculate DAF using Domenico Model

- Domenico equation with dispersion only (no biodegradation) Enter Decay Rates
 Domenico equation first-order decay Enter Site Data
 Modified Domenico equation using electron acceptor superposition

▼ Biodegradation Capacity NC (mg/L)
 or

User-Specified DAF Values

- DAF values from other model or site data Enter DAF Values

4. Chemical Decay and Source Depletion

Enter Decay Rates

Enter Source Mass

5. Commands and Options

Main Screen

Print Sheet

Help

Site-Specific Soil Parameters

1. Soil Source Zone Characteristics

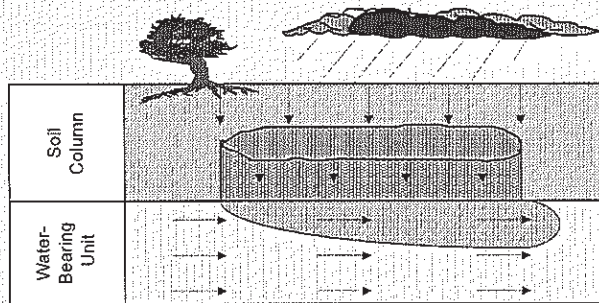
Hydrogeology

Depth to water-bearing unit (ft)
 Capillary zone thickness (ft)
 Soil column thickness (ft)

Affected Soil Zone

Depth to top of affected soils (ft)
 Depth to base of affected soils (ft)
 Length of affected soil parallel to assumed GW flow direction (ft)

Res/Com	Construction	
<input type="text" value="2025"/>	<input type="text" value="45"/>	<input type="text" value="45"/> (ft ²)
		<input type="text" value="45"/> (ft)



Site Name: Former Shell-branded Service Station
 Location: 15275 Washington Blvd., San Leandro, CA
 Compl. By: LD

Job ID:
 Date: 1-Sep-08

2. Surface Soil Column

Predominant USCS Soil Type

CL: Silty Clay

Calculate

Vadose Zone ↓ Capillary Fringe

Volumetric water content	<input type="text" value="0.34"/>	<input type="text" value="0.35"/> (-)
Volumetric air content	<input type="text" value="0.02"/>	<input type="text" value="0.01"/> (-)
Total porosity	<input type="text" value="0.36"/>	<input type="text" value="0.36"/> (-)
Dry bulk density	<input type="text" value="1.7"/>	<input type="text" value="1.7"/> (kg/L)
Vertical hydraulic conductivity	<input type="text" value="0.000283465"/>	<input type="text" value="0.000283465"/> (ft/d)
Vapor permeability	<input type="text" value="1.08E-16"/>	<input type="text" value="1.08E-16"/> (ft ²)
Capillary zone thickness	<input type="text" value="0.95144357"/>	<input type="text" value="0.95144357"/> (ft)

Net Rainfall Infiltration

Net infiltration estimate (in/yr)

or

Average annual precipitation (in/yr)

Partitioning Parameters

Fraction organic carbon - entire soil column	<input type="text" value="0.01"/>	<input type="text" value="0.01"/> (-)
Fraction organic carbon - root zone	<input type="text" value="0.01"/>	<input type="text" value="0.01"/> (-)
Soil/water pH	<input type="text" value="6.8"/>	<input type="text" value="6.8"/> (-)

3. Commands and Options

Main Screen

Use/Set Default Values

Print Sheet

Set Units

Help

Site-Specific Groundwater Parameters

1. Water-Bearing Unit ?

Hydrogeology

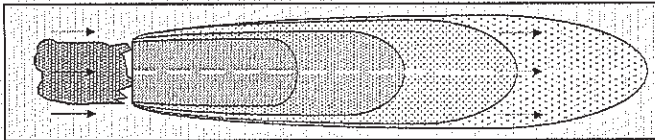
Groundwater Darcy velocity	1.0E-2 (ft/d)
Groundwater seepage velocity	5.0E-4 (ft/d)
or	Calculate <input type="button" value="v"/>
Hydraulic conductivity	1.0E+0 (ft/d)
Hydraulic gradient	0.01 (-)
Effective porosity	20 (-)

Sorption

Fraction organic carbon-saturated zone	0.001 (-)
Groundwater pH	6.2 (-)

2. Groundwater Source Zone ?

Groundwater plume width at source	15 (ft)
Plume (mixing zone) thickness at source	6.56167979 (ft)
Calculate <input type="button" value="v"/>	↑ or
Saturated thickness	6.56167979 (ft)
Length of source zone	45 (ft)



Site Name: Former Shell-branded Service Station
 Location: 15275 Washington Blvd., San Leandro, CA
 Compl. By: LD

Job ID:
 Date: 1-Sep-08

3. Groundwater Dispersion ?

Model: ASTM Default <input type="button" value="v"/>	GW Ingestion		GW to Indoor Air	
Distance to GW receptors	Off-site 1	Off-site 2	Off-site 1	Off-site 2
Calculate <input type="button" value="v"/>	0	0	50	100 (ft)
Longitudinal dispersivity	0	0	5	10 (ft)
Transverse dispersivity	0	0	1.65	3.3 (ft)
Vertical dispersivity	0	0	0.25	0.5 (ft)

4. Groundwater Discharge to Surface Water ?

Distance to GW/SW discharge point	Off-site 2
	NA (ft)
Plume width at GW/SW discharge	0 (ft)
Plume thickness at GW/SW discharge	0 (ft)
Surface water flowrate at GW/SW discharge	0.0E+0 (ft ³ /s)

5. Commands and Options

Main Screen

Use/Set Default Values

Print Sheet

Set Units

Help

Site-Specific Air Parameters

Site Name: Former Shell-branded Service Station
 Location: 15275 Washington Blvd., San Leandro, CA
 Compl. By: LD
 Job ID:
 Date: 1-Sep-08

1. Outdoor Air Pathway

Dispersion in Air

Distance to offsite air receptor

Calculate

Horizontal dispersivity

Vertical dispersivity

Air Source Zone

Air mixing zone height

Ambient air velocity in mixing zone

Inverse mean conc. [O/C term]

Particulate Emissions

Particulate Emission Factor

or Calculate

Areal particulate emission flux

Fraction vegetative cover

Mean annual air velocity @ 7 m

Equivalent 7m air vel. threshold

Windspeed function [F(x) term]

Off-site 1	Off-site 2
50	100
↓	↓

5.863729	11.25753
4.005088	7.614947

6.56167979	(ft)
7.381889764	(ft/s)
79.25	

Model: ASTM Model

2.1E-12	(kg/m ³)
↑	
6.9E-14	(g/cm ² /s)
0.5	(-)
15.7480315	
37.13910761	(ft/s)
0.224	(-)

?

2. Indoor Air Pathway

Building volume/area ratio

Foundation area

Foundation perimeter

Building air exchange rate

Depth to bottom of foundation slab

Convective air flow through cracks

Foundation thickness

Foundation crack fraction

Volumetric water content of cracks

Volumetric air content of cracks

Indoor/Outdoor differential pressure

Building Volume

Building Width Perpendicular to GW flow

Building Length Parallel to GW flow

Saturated Soil Zone Porosity

Vertical Dispersivity

Groundwater Seepage Velocity

	Residential	Commercial	
Building volume/area ratio	6.56168	9.84252	(ft)
Foundation area	753.4737	753.4737	(ft ²)
Foundation perimeter	160.7612	111.5186	(ft)
Building air exchange rate	1.4E-4	2.3E-4	(1/s)
Depth to bottom of foundation slab	0.492126	0.492126	(ft)
Convective air flow through cracks	0.0E+0	0.0E+0	(ft ³ /s)
Foundation thickness	0.492125984		(ft)
Foundation crack fraction	0.001		(-)
Volumetric water content of cracks	0.12		(-)
Volumetric air content of cracks	0.26		(-)
Indoor/Outdoor differential pressure	0		(g/cm/s ²)
Building Volume	15926.91	15926.91	(ft ³)
Building Width Perpendicular to GW flow	31.52857	31.52857	(ft)
Building Length Parallel to GW flow	31.52857	31.52857	(ft)
Saturated Soil Zone Porosity	20		(-)
Vertical Dispersivity	0.020		(ft)
Groundwater Seepage Velocity	0.00		(cm/s)

?

3. Commands and Options

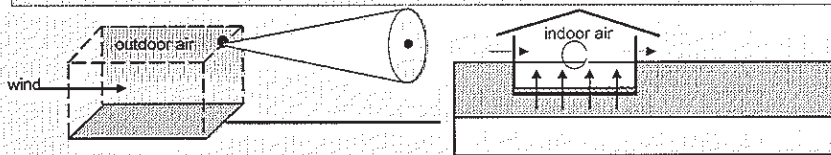
Main Screen

Use/Set Default Values

Print Sheet

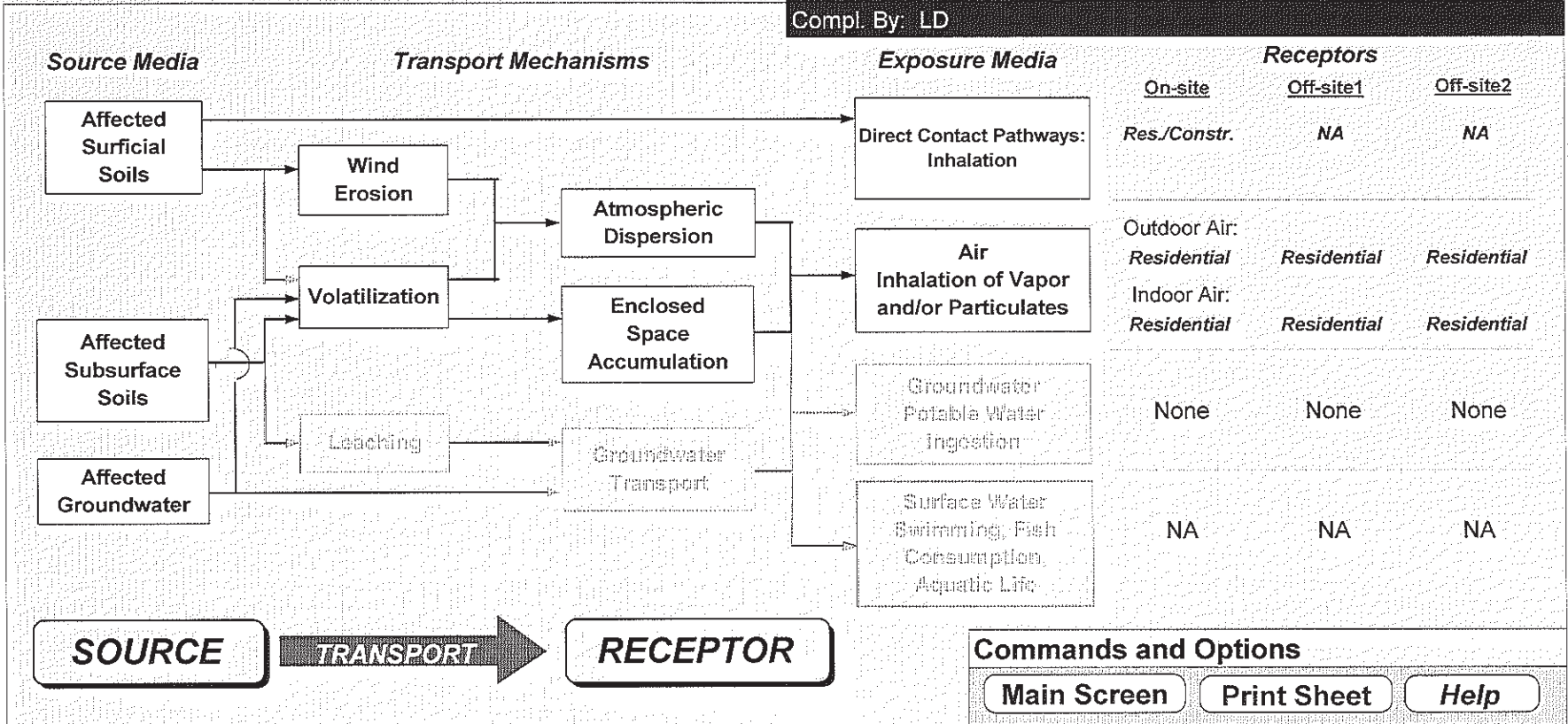
Set Units

Help



Exposure Pathway Flowchart

Site Name: Former Shell-branded Service Station Job ID:
 Location: 15275 Washington Blvd., San Leandro, CA Date: 1-Sep-08
 Compl. By: LD



RBCA SITE ASSESSMENT

Site Name: Former Shell-branded Service Station
 Site Location: 15275 Washington Blvd., San Leandro, CA

Completed By: LD
 Date Completed: 1-Sep-08

Job ID:

GROUNDWATER SSTL VALUES

Target Risk (Class A & B) 1.0E-6
 Target Hazard Quotient 1.0E+0

Groundwater DAF Option: Domenico - No Decay
 (One-directional vert. dispersion)

SSTL Results For Complete Exposure Pathways (Checked if Pathway is Complete)

CONSTITUENTS OF CONCERN		Representative Concentration (mg/L)	<input type="checkbox"/> Groundwater Ingestion / Discharge to Surface Water			<input checked="" type="checkbox"/> Groundwater Volatilization to Indoor Air			<input checked="" type="checkbox"/> Groundwater Volatilization to Outdoor Air			Applicable SSTL (mg/L)	SSTL Exceeded? * <input checked="" type="checkbox"/> if yes	Required CRF Only if "yes" left
			On-site (0 ft)	Off-site 1 (ft)	Off-site 2 (0 ft)	On-site (0 ft)	Off-site 1 (50 ft)	Off-site 2 (100 ft)	On-site (0 ft)	Off-site 1 (50 ft)	Off-site 2 (100 ft)			
71-43-2	Benzene		None	None	None	Residential	Residential	Residential	>1.8E+3	>1.8E+3	>1.8E+3	2.7E+0	<input type="checkbox"/>	NA
T-ar0810	TPH - Arom >C08-C10					>6.5E+1	>6.5E+1	>6.5E+1	>6.5E+1	>6.5E+1	>6.5E+1	>6.5E+1	<input type="checkbox"/>	NA
NA	Total TPH mixture	0.0E+0	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC	<input type="checkbox"/>	NA

* = Chemical with user-specified data

">" indicates risk-based target concentration greater than constituent solubility value. NA = Not applicable. NC = Not calculated.

RBCA SITE ASSESSMENT

Site Name: Former Shell-branded Service Station
 Site Location: 15275 Washington Blvd., San Leandro, CA

Completed By: LD
 Date Completed: 1-Sep-08

Job ID:

SURFACE SOIL (0 - 3.3 ft)
SSTL VALUES

Target Risk (Class A & B) 1.0E-6
 Target Hazard Quotient 1.0E+0

Groundwater DAF Option: Domenico - No Decay
 (One-directional vert. dispersion)

SSTL Results For Complete Exposure Pathways (Checked if Pathway is Complete)

CONSTITUENTS OF CONCERN		Representative Concentration (mg/kg)	Soil Leaching to Groundwater Ingestion / Discharge to Surface Water			Soil Leaching to Groundwater/ Groundwater Ventilation to Indoor Air			Soil Vol. to Indoor Air			Surface Soil Particulates to Outdoor Air			Direct Contact Pathways: Inhalation		Applicable SSTL (mg/kg)	SSTL Exceeded? "m" if yes	Required CRF Only if "yes" left
			On-site (0 ft)	Off-site 1 (0 ft)	Off-site 2 (0 ft)	On-site (0 ft)	Off-site 1 (50 ft)	Off-site 2 (100 ft)	On-site (0 ft)	On-site (0 ft)	Off-site 1 (50 ft)	Off-site 2 (100 ft)	On-site (0 ft)	Residential	Construction Worker	Residential			
71-43-2	Benzene		None	None	None	None	None	None	Residential	Residential	Construction Worker	Residential	Residential	Residential	Construction Worker	5.9E-1	<input type="checkbox"/>	NA	
T-ar0810	TPH - Arom >C08-C10								>1.0E+3	>1.0E+3		>1.0E+3	>1.0E+3	3.3E+5	1.0E+6	3.3E+5	<input type="checkbox"/>	NA	
NA	Total TPH mixture	0.0E+0	NA	NA	NA	NA	NA	NA	NC	NC	NA	NC	NC	NC	NC	NC	<input type="checkbox"/>	NA	

* = Chemical with user-specified data

> indicates risk-based target concentration greater than constituent residual saturation value. NA = Not applicable. NC = Not calculated.

RBCA SITE ASSESSMENT

Site Name: Former Shell-branded Service Station
 Site Location: 15275 Washington Blvd., San Leandro, CA

Completed By: LD
 Date Completed: 1-Sep-08

Job ID:

**SUBSURFACE SOIL (3.3 - 6 ft)
 SSTL VALUES**

Target Risk (Class A & B) 1.0E-6
 Target Hazard Quotient 1.0E+0

Groundwater DAF Option: Domenico - No Decay
 (One-directional vert. dispersion)

SSTL Results For Complete Exposure Pathways (Checked if Pathway is Complete)

CONSTITUENTS OF CONCERN		Representative Concentration (mg/kg)	<input type="checkbox"/> Soil Leaching to Groundwater Ingestion / Discharge to Surface Water			<input type="checkbox"/> Soil Leaching to Groundwater/ Groundwater Volatilization to Indoor Air			<input checked="" type="checkbox"/> Soil Vol. to Indoor Air	<input checked="" type="checkbox"/> Soil Volatilization to Outdoor Air			Applicable SSTL (mg/kg)	SSTL Exceeded? "X" if yes	Required CRF Only if "yes" left
			On-site (0 ft)	Off-site 1 (0 ft)	Off-site 2 (0 ft)	On-site (0 ft)	Off-site 1 (50 ft)	Off-site 2 (100 ft)	On-site (0 ft)	On-site (0 ft)	Off-site 1 (50 ft)	Off-site 2 (100 ft)			
71-43-2	Benzene		None	None	None	None	None	None	Residential	Residential	Residential	Residential	5.9E-1	<input type="checkbox"/>	
T-ar0810	TPH - Arom >C08-C10							>1.0E+3					>1.0E+3	<input type="checkbox"/>	
NA	Total TPH mixture	0.0E+0	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC	NC	<input type="checkbox"/>	NA

* = Chemical with user-specified data

">" indicates risk-based target concentration greater than constituent residual saturation value. NA = Not applicable. NC = Not calculated.

RBCA SUMMARY REPORT

SUMMARY REPORT

TIER 1 / TIER 2 RBCA SITE EVALUATION

FORMER SHELL SERVICE STATION
15275 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

WIC #204-6852-1108

Weiss Associates, Emeryville, California

PREPARED BY

June 18, 1997

DATE ISSUED

REVIEWED BY

DATE

Steve Long

6/20/97

RBCA SUMMARY REPORT

Table of Contents

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates

Page 1 of 2

TIER 1 / TIER 2 RBCA REPORT INDEX

■ = ENCLOSED

Tier 1 Tier 2

1.0 EXECUTIVE SUMMARY			
		Tier 1	Tier 2
1.2 Tier 2 Executive Summary Checklist	*		■
1.3 Executive Summary Discussion		□	■ (u)
1.4 Baseline Exposure Pathway Flowchart		□	□ (u)
1.5 Comparison of Site Data to RBSLs/SSTLs - Commercial/Industrial Receptors		□	□ (u)
1.6 Comparison of Site Data to RBSLs/SSTLs - Residential Receptors		■	■ (u)
2.0 SITE HISTORY			
2.1 Site Description		□	□ (u)
2.2 Site Ownership & Activity Record		□	□ (u)
2.3 Past Releases or Source Areas		□	□ (u)
2.4 Summary of Current & Completed Site Activities		□	□ (u)
2.5 Summary of Potential Near-Term Site Activities		□	□ (u)
3.0 SITE ASSESSMENT INFORMATION			
3.1 Regional Hydrogeologic Conditions		□	□ (u)
3.2 Hydrogeologic Site Conditions		□	□ (u)
3.3 Beneficial Use Summary		□	□ (u)
3.4 Well Inventory Survey		□	□ (u)
3.5 Ecological Assessment Summary		□	□ (u)
4.0 BASELINE EXPOSURE ASSESSMENT			
4.1 Site Classification Summary		□	■ (u)
4.2 Baseline Exposure Flowchart		□	■ (u)
4.3 Tier 2 Exposure Factor Checklist	*	□	■ (u)
4.4 Tier 2 Exposure Pathway Screening	*		■
4.5 Tier 2 Exposure Scenarios & Risk Goals	*		■
5.0 SITE PARAMETERS			
5.1 Site Parameter Checklist for RBSLs		□	■ (u)
5.2 Summary of Media Investigation and Chemical Analyses		□	■ (u)
5.3 Summary of Source Zone Characteristics		□	■ (u)
5.4 Surface Soil Concentration Data Summary		□	□ (u)
5.5 Subsurface Soil Concentration Data Summary		□	■ (u)
5.6 Groundwater Concentration Data Summary		□	■ (u)
5.7 Tier 2 Exposure Pathway Transport Parameters	*		■
6.0 TIER 1 RISK-BASED SCREENING LEVEL EVALUATION			
6.1 Tier 1 RBSL Evaluation: Surface Soil		□	
6.2 Tier 1 RBSL Evaluation: Subsurface Soil		□	
6.3 Tier 1 RBSL Evaluation: Groundwater		□	

* = Required for Tier 2 Evaluation only

(u) = For Tier 2, update Tier 1 version as needed.

RBCA SUMMARY REPORT

Table of Contents

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997
 Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates

Page 2 of 2

TIER 1 / TIER 2 RBCA REPORT INDEX - *continued*

■ = ENCLOSED

Tier 1 Tier 2

		Tier 1	Tier 2
7.0 NATURAL ATTENUATION FACTORS			
7.1	Tier 2 NAF Calculation Methods & Results	*	<input type="checkbox"/>
8.0 TIER 2 SSTL EVALUATION			
8.1	Surface Soil SSTL Values	*	<input type="checkbox"/>
8.2	Subsurface Soil SSTL Values	*	■
8.3	Groundwater SSTL Values	*	■
ATTACHMENTS			
Figure 1	Site Location Map		<input type="checkbox"/> (u)
Figure 2	Extended Site Map		<input type="checkbox"/> (u)
Figure 3	Site Plan		<input type="checkbox"/> (u)
Figure 4	Site Photos		<input type="checkbox"/> (u)
Figure 5	Groundwater Plume Maps	*	<input type="checkbox"/>
Figure 6	Groundwater Elevation Map		<input type="checkbox"/> (u)
Figure 7	Soil Boring Location Map		<input type="checkbox"/> (u)
APPENDICES			
Appendix A	SSTL Calculations		<input type="checkbox"/> ■ (u)
Appendix B	SSTL Calculations		<input type="checkbox"/> ■ (u)
Appendix C	Well Screen Intervals		■
(SPECIFY)			

* = Required for Tier 2 Evaluation only

(u) = For Tier 2, update Tier 1 version as needed.

RBCA SUMMARY REPORT

Worksheet 1.2

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates Page 1 of 1

TIER 2 EXECUTIVE SUMMARY

TIER 2 SSTL CALCULATION METHOD (■ OR ● TO SELECT)

SSTL Calculation Option

- Option 1: Site-Specific Screening Levels
- Option 2: Individual Constituent SSTL Values
- Option 3: Cumulative Constituent SSTL Values

NAF Calculation Method

- Fate and Transport Modeling:
- RBCA Spreadsheet System
- Other Model(s)
- Empirical NAF Calculation

SITE DATA INVENTORY

Source Zone Investigation Complete:

- Surface Soil (e.g., < 3 ft BGS)
- Subsurface Soil (e.g., > 3 ft BGS)
- Groundwater

Exposure Pathway Information Completed:

- Air Pathway
- Groundwater Pathway
- Soil Pathway
- Surface Water Pathway
- Land Use Classification (on-site and off-site)

TASKS COMPLETED

- Tier 1 Evaluation
- Tier 2 Evaluation
- Tier 2 Final Corrective Action
- Tier 1 Interim Corrective Action
- Tier 2 Interim Corrective Action
- Tier 3 Evaluation

CURRENT SITE CLASSIFICATION

Classification No.	Scenario Description	Prescribed Interim Action	Date Implemented
3	Shallow ground water and subsurface soils are impacted. There are no domestic drinking water wells within 1/2 mile.	Evaluate remedial alternatives to reduce site concentrations to or below SSTLs	Planned for 1998

TIER 2 CORRECTIVE ACTION CRITERIA

Affected Medium	Tier 2 SSTL Exceeded ?		Applicable Excess Risk Limits (specify values)				Other Applicable Exposure Limits
	Yes	No	Indiv. Risk	Total Risk	Hazard Index	Hazard Quotient	(specify, if any)
• Surface Soil (≤ 3ft bgs)	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
• Subsurface Soil (> 3ft bgs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10 ⁻⁵	_____	_____	1.0	_____
• Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10 ⁻⁵	_____	_____	1.0	MCLs at POE

PROPOSED ACTION

- No Action:** Tier 2 SSTLs not exceeded. Apply for closure.
- Interim Corrective Action:** Address principal, near-term risks sources.
- Final Corrective Action:** Remediate/control site to meet Tier 2 criteria.
- Tier 3 Evaluation:** Improve baseline risk and SSTL estimates.

NOTE:

Rationale for proposed action documented on Worksheets 1.3 and 10.1-10.3.

ALL WORKSHEETS ENCLOSED IN THIS REPORT ARE IDENTIFIED ON THE TABLE OF CONTENTS FORM

RBCA SUMMARY REPORT

Worksheet 1.3

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates

Page 1 of 2

EXECUTIVE SUMMARY

Instructions: Provide brief description of site history, hydrogeologic conditions, ecological assessment, possible exposure pathways, SSTL results, and the scope of work for proposed corrective action activity. Address proposed methods, implementation schedule, cost, and anticipated risk reduction at or near the site.

SITE DESCRIPTION AND HISTORY

Update Site History from Tier 1, if necessary

No update from Tier 1.

SITE ASSESSMENT INFORMATION

GEOLOGIC AND HYDROGEOLOGIC SUMMARY

Update from Tier 1, if necessary

No update from Tier 1.

EXPOSURE ASSESSMENT

COMPLETE EXPOSURE PATHWAYS AND APPLICABLE RECEPTORS

Identify those pathway/contaminant pairs to be evaluated at Tier 2 (exceeded Tier 1 criteria)

In Tier 1, potentially complete current and/or future exposure pathways for human exposure were identified as:

- Inhalation of indoor and outdoor air via volatilization from subsurface soils
- Inhalation of indoor and outdoor air via volatilization from ground water
- leachate to ground water from subsurface soils for ingestion
- ground water ingestion at a hypothetical point of exposure closest to the area of impact.

Residential receptors were considered in the evaluations as the future use of the site is not determined and there is a residential area located adjacent to the site. Pathways involving exposure to surface soil were not considered in the initial Tier 1 evaluations due to lack of field data. In May 1997, a soil vapor survey and soil sampling investigation was conducted to further evaluate site conditions and to collect data for exposure pathways that were not considered in Tier 1 evaluations. These data were used to reevaluate Tier 1 screening levels and to evaluate pathways involving exposure to surface soils.

Potentially complete current and/or future exposure pathways in the updated Tier 1 evaluation were identified as:

- Inhalation of indoor and outdoor air via volatilization from subsurface soils
- Inhalation of indoor and outdoor air via volatilization from ground water
- Inhalation, dermal contact and ingestion of vapors and particulates from surficial soils
- leachate to ground water from subsurface soils for ingestion
- ground water ingestion at a hypothetical point of exposure closest to the area of impact.

Worksheet 1.6 shows the comparison of previous and updated site characterization data to RBSLs. Worst-case concentrations of toluene, ethylbenzene and xylenes were below relevant Tier 1 RBSLs. Therefore the presence of these COCs in site soils and/or ground water is not believed to present a significant risk to human health or the environment. Worst-case benzene concentrations exceeded the conservative Tier 1 RBSLs for the following pathways, which are evaluated further in Tier 2:

- Inhalation of benzene vapors via volatilization from subsurface soils into buildings and to outdoor air
- Inhalation of benzene vapors via volatilization from ground water into buildings
- leachate of benzene to ground water from subsurface soils for ingestion
- ingestion of benzene via ground water at nearest off-site hypothetical point of exposure.

Assuming that leachate to ground water is a potentially complete exposure pathway is a conservative approach, because the ground water analytical results do not indicate any significant change in concentrations due to leaching from soils. Ground water ingestion is also conservatively considered a potentially complete pathway and there are no known uses of shallow ground water in the area.

ECOLOGICAL ASSESSMENT SUMMARY

Update from Tier 1, if necessary

No update from Tier 1

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates Page 2 of 2

EXECUTIVE SUMMARY *continued*

REPRESENTATIVE TIER 2 SSTL EVALUATION

COMPARISON TO SOURCE MEDIA CONCENTRATIONS

For pathways evaluated at Tier 2, compare representative source concentrations to applicable SSTL values.

SSTLs were calculated for inhalation and ground water ingestion exposure pathways using site-specific parameter values and site-specific fate and transport modeling. SSTL calculations and site-specific parameter values are found in Appendices A and B of this Tier 2 evaluation report. Worksheet 1.6 shows the comparison between SSTLs and site soil and ground water concentrations. Site concentrations exceeded Tier 2 SSTLs for the following exposure pathways:

- Inhalation of benzene vapors via volatilization from subsurface soils into buildings.
- Inhalation of benzene vapors via volatilization from ground water into buildings.

QUALITATIVE UNCERTAINTY ASSESSMENT

Discuss uncertainty / conservatism of the site data and calculation methods used in deriving SSTL values.

In calculating the SSTLs for soils and ground water, only a few site-specific parameters were used in place of Tier 1 default values. These parameters are discussed in Appendices A and B, and in Worksheet 5.1. The site representative concentrations were conservatively selected based on maximum detected concentrations. In addition, conservative assumptions were made for estimating plume thickness in ground water, thickness of contaminated soils and for the location of a hypothetical water supply well in the shallow water-bearing zone.

PROPOSED CORRECTIVE ACTION

Describe rationale for proposed action (i.e., no action, interim action, final action, or tier upgrade), considering site classification and land use. Discuss basis for remedy selection, if applicable.

Based on the results of the Tier 2 analysis, an evaluation of remedial alternatives is proposed to reduce concentrations to or below SSTLs.

REFERENCE DOCUMENTS

List the document sources for the data cited in this report.

See Section 5.0 of the attached report.

RBCA SUMMARY REPORT

Tier 1 Worksheet 1.6

Site Name: Former Shell Service Station, WIC #204-6852-1108

Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California

Completed By: Weiss Associates

Page 1 of 2

RESIDENTIAL RECEPTORS: COMPARISON OF PREVIOUS AND UPDATED SITE CHARACTERIZATION DATA TO RBSLS

Media	Exposure Pathway	Potentially Complete?	Benzene			Toluene			Ethylbenzene			Xylenes		
			RBSL ⁽¹⁾	Representative Concentration ⁽²⁾		RBSL ⁽³⁾	Representative Concentration ⁽²⁾		RBSL ⁽³⁾	Representative Concentration ⁽²⁾		RBSL ⁽³⁾	Representative Concentration ⁽²⁾	
				Tier 1	Update		Tier 1	Update		Tier 1	Update		Tier 1	Update
Soil (mg/kg)	Volatilization to Outdoor Air	Yes	0.79	31	10	RES ⁽⁴⁾	170	5.9	RES	280	52	RES	560	220
	Vapor Intrusion to Buildings	Yes	0.015	31	10	20.6	170	5.9	427	280	52	RES	560	220
	Surficial Soil (0-3 ft depth): Ingestion/Dermal/Inhalation	Yes	16.8	no data	0.34	13,300	no data	0.11	7,830	no data	1.1	145,000	no data	0.47
	Leachate to Ground Water for Ingestion	Yes	0.05	31	10	129	170	5.9	575	280	52	RES	560	220
Ground Water (mg/l)	Volatilization to Outdoor Air	Yes	31.9	0.86	0.99	>S ⁽⁵⁾	0.29	0.33	>S	1.5	1.5	>S	5.9	6.3
	Vapor Intrusion to Buildings	Yes	0.069	0.86	0.99	32.8	0.29	0.33	77.5	1.5	1.5	>S	5.9	6.3
	Ingestion	Yes	0.0085	0.86	0.99	7.3	0.29	0.33	3.65	1.5	1.5	73.0	5.9	6.3

Notes:

(1) The RBSLs used for benzene is based on a carcinogenic risk of 1 in 100,000 (10⁻⁵), and corrected for the California cancer slope factor.

(2) Methodology for establishing representative COC concentrations shown on worksheets 5.3 - 5.6

(3) The RBSLs used for non-carcinogenic constituents of concern is a chronic hazard quotient of 1.0.

(4) RES = Selected risk level is not exceeded for pure compound present at any concentration in soil.

(5) >S = At pure component solubility (mg/l), selected risk level is not exceeded.

NA = Not applicable.

ND = Not detected

Boldface indicates exceedance on a potentially complete exposure pathway

RBCA SUMMARY REPORT

Tier 2 Worksheet 1.6

Site Name: **Former Shell Service Station, WIC #204-6852-1108**

Date Completed: **June 18, 1997**

Site Location: **15275 Washington Avenue, San Leandro, California**

Completed By: **Weiss Associates**

Page 2 of 2

RESIDENTIAL RECEPTORS: COMPARISON OF SITE CHARACTERIZATION DATA TO SSTLS

Media	Exposure Pathway	Potentially Complete?	Benzene	
			SSTL ⁽¹⁾	Representative Concentration ⁽²⁾
Soil (mg/kg)	Volatilization to Outdoor Air	Yes	204	10
	Vapor Intrusion to Buildings	Yes	0.25	10
	Leachate to Ground Water for Ingestion	Yes	17	10
Ground Water (mg/l)	Vapor Intrusion to Buildings	Yes	0.86	1.4
	Ingestion	Yes	2.0	1.4

Notes:

⁽¹⁾ The SSTLs used for benzene is based on a carcinogenic risk of 1 in 100,000 (10^{-5}), and corrected for the California cancer slope factor.

⁽²⁾ Methodology for establishing representative COC concentrations shown on worksheets 5.3 - 5.6

⁽³⁾ The SSTLs used for non-carcinogenic constituents of concern is a chronic hazard quotient of 1.0.

⁽⁴⁾ RES = Selected risk level is not exceeded for pure compound present at any concentration in soil.

⁽⁵⁾ >S = At pure component solubility (mg/l), selected risk level is not exceeded.

NA = Not applicable.

ND = Not detected

Boldface indicates exceedance on a potentially complete exposure pathway

RBCA SUMMARY REPORT

Worksheet 4.1

Site Name: Former Shell Service Station, WIC #204-6852-1108

Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California

Completed By: Weiss Associates

Page 1 of 1

RBCA SITE CLASSIFICATION SUMMARY

Instructions: Determine RBCA Site Classification using site classification flowcharts provided in Tier 1 RBCA Guidance Manual, as follows:

Evaluate available information on site soils, vapors, groundwater, surface water, and miscellaneous impacts using the corresponding flowcharts. Record two-digit site classification number for each medium. Record critical site classification scenario and initial response action in space provided. If there is more than one number within the lowest classification group (e.g., Class 2), record both (e.g., 2.1, 2.3).

Compare numerical values from individual media to identify critical site classification(s) (i.e., lowest values). As site evaluation progresses, update site classification as appropriate by repeating Steps 1 - 3, based upon additional site data or completion of corrective measure.

SITE STATUS		MEDIUM-SPECIFIC CLASSIFICATION VALUES					CRITICAL CLASSIFICATION(S)	
Date	Status Description	Soil	Ground-water	Vapor	Surface Water	Misc.	Classification No. and Scenario	Prescribed Initial Response
INITIAL CLASSIFICATION:								
Aug 1996	Shallow soils and ground water impacted.	3	3	3	4	4	3. Potential for vapor migration, possible long-term threat to human or beneficial ground water use. 4. No potential threat to human health or beneficial ground water use.	Continue ground water monitoring, prepare workplan to collect soil vapor data. Perform Tier 2 evaluation No further action.
REVISED CLASSIFICATION:								
Nov 1996	COC concentrations in soil and ground water exceed Tier 1 RBSLs.	3	3	3	4	4	3. Potential for vapor migration, possible long-term threat to human or beneficial ground water use. 4. No potential threat to human health or beneficial ground water use.	Continue ground water monitoring, prepare workplan to collect soil vapor data. Perform Tier 2 evaluation No further action.
June 1997	COC concentrations in soil exceed Tier 2 SSTLs	3	4	3	4	4	3. Potential for vapor migration, possible long-term threat to human or beneficial ground water use. 4. No potential threat to human health or beneficial ground water use.	Select remedial alternative to reduce soil concentration to/below SSTLs. No further action.

RBCA SUMMARY REPORT

Worksheet 4.2

Site Name: Former Shell Service Station, WIC #204-6852-1108

Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California

Completed By: Weiss Associates

Page 1 of 1

EXPOSURE FLOWCHART

This worksheet shows the Baseline Exposure Flowchart from the tier 1 Analysis.

PRIMARY SOURCES	SECONDARY SOURCES	TRANSPORT MECHANISMS	EXPOSURE ROUTE	POTENTIAL RECEPTORS	POTENTIALLY COMPLETE PATHWAY?	
<input checked="" type="checkbox"/> Product Storage <input checked="" type="checkbox"/> Piping / Distribution <input type="checkbox"/> Operations <input type="checkbox"/> Waste Management Unit <input checked="" type="checkbox"/> Other: Potential migration from offsite sources	<input type="checkbox"/> Affected Surface Soils (≤3 ft depth)	<input type="checkbox"/> Wind Erosion and Atmospheric Dispersion	<input type="checkbox"/> Soil Dermal Contact/ Ingestion	Exposed Receptors On-Site: <input type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A <input type="checkbox"/> Sensitive <input type="checkbox"/> Recreation Habitat Off-Site: <input type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A <input type="checkbox"/> Sensitive <input type="checkbox"/> Recreation Habitat	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential	
	<input checked="" type="checkbox"/> Affected Subsurface Soils (> 3 ft depth)	<input checked="" type="checkbox"/> Volatilization and Atmospheric Dispersion	<input checked="" type="checkbox"/> Air Inhalation of Vapor or Dust	Exposed Persons On-Site: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A Off-Site: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential	
	<input checked="" type="checkbox"/> Dissolved Groundwater Plume	<input checked="" type="checkbox"/> Volatilization and Enclosed Space Accumulation	<input checked="" type="checkbox"/> Leaching and Groundwater Transport	<input checked="" type="checkbox"/> Groundwater Potable Water Use	Groundwater Users On-Site: <input type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input checked="" type="checkbox"/> N/A Off-Site: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential
	<input type="checkbox"/> Free-Phase Liquid Plume	<input type="checkbox"/> Mobile Free-Liquid Migration	<input type="checkbox"/> Surface Water	<input type="checkbox"/> Surface Water Recreational Use / Sensitive Habitat	Surface Water Users On-Site: <input type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A <input type="checkbox"/> Sensitive <input type="checkbox"/> Recreation Habitat Off-Site: <input type="checkbox"/> Residential <input type="checkbox"/> Non-Resid. <input type="checkbox"/> N/A <input type="checkbox"/> Sensitive <input type="checkbox"/> Recreation Habitat	<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="radio"/> Current <input type="radio"/> Potential
<input type="checkbox"/> Affected Surface Soils, Sediments, or Surface Water	<input type="checkbox"/> Stormwater/ Surface Water Transport				AT HYPOTHETICAL OFF-SITE POINT OF EXPOSURE	

(OR TO SELECT)

RBCA SUMMARY REPORT

Worksheet 4.3

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Welss Associates

Page 1 of 1

EXPOSURE FACTOR CHECKLIST

Instructions: • **Tier 2 Evaluation:** Indicate use of either a Reasonable Maximum Exposure (RME) factor or a site-specific exposure factor for both residential and commercial / industrial points of exposure (POEs), as appropriate for each exposure pathway. For Tier 2, data is required for Global Factors and for complete pathways only (see Worksheet 4.4).

	RESIDENTIAL POE		COMMERCIAL/ INDUSTRIAL POE	
	RME	Site-Specific	RME	Site-Specific
GLOBAL FACTORS <input checked="" type="checkbox"/> TO SELECT				
AT _c Averaging time for carcinogens	<input checked="" type="checkbox"/> 70 yrs	<input type="checkbox"/> _____	<input type="checkbox"/> 70 yrs	<input type="checkbox"/> _____
Averaging time for non-carcinogens	<input checked="" type="checkbox"/> = ED	<input type="checkbox"/> _____	<input type="checkbox"/> = ED	<input type="checkbox"/> _____
BW Body weight -Adult	<input checked="" type="checkbox"/> 70 kg	<input type="checkbox"/> _____	<input type="checkbox"/> 70 kg	<input type="checkbox"/> _____
-Child (1-6 yrs)	<input checked="" type="checkbox"/> 15 kg	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
ED Exposure duration	<input checked="" type="checkbox"/> 30 yrs	<input type="checkbox"/> _____	<input type="checkbox"/> 25 yrs	<input type="checkbox"/> _____
AIR EXPOSURE FACTORS <input checked="" type="checkbox"/> COMPLETE (provide data) <input type="checkbox"/> NOT COMPLETE (skip)				
EF Exposure frequency (Inhalation)	<input checked="" type="checkbox"/> 350 dy/yr	<input type="checkbox"/> _____	<input type="checkbox"/> 250 dy/yr	<input type="checkbox"/> _____
IR _{ai} Daily indoor inhalation rate	<input checked="" type="checkbox"/> 15 m ³ /dy (24-hr/dy)	<input type="checkbox"/> _____	<input type="checkbox"/> 20 m ³ /dy (8-hr/dy)	<input type="checkbox"/> _____
IR _{ao} Daily outdoor inhalation rate	<input checked="" type="checkbox"/> 20 m ³ /dy (24-hr/dy)	<input type="checkbox"/> _____	<input type="checkbox"/> 20 m ³ /dy (8-hr/dy)	<input type="checkbox"/> _____
POTABLE WATER USE EXPOSURE FACTORS <input checked="" type="checkbox"/> COMPLETE (provide data) <input type="checkbox"/> NOT COMPLETE (skip)				
EF Exposure frequency (Ingestion/showering)	<input checked="" type="checkbox"/> 350 dy/yr	<input type="checkbox"/> _____	<input type="checkbox"/> 250 dy/yr	<input type="checkbox"/> _____
IR _w Daily water ingestion rate	<input checked="" type="checkbox"/> 2 L/dy (24-hr/dy)	<input type="checkbox"/> _____	<input type="checkbox"/> 1 L/dy (8-hr/dy)	<input type="checkbox"/> _____
EP _{sh} Exposure period (showering)	<input checked="" type="checkbox"/> 12 min/dy	<input type="checkbox"/> _____	<input type="checkbox"/> 12 min/da	<input type="checkbox"/> _____
SA _w Skin surface area (showering) -Adult (70 kg)	<input checked="" type="checkbox"/> 0.86 m ²	<input type="checkbox"/> _____	<input type="checkbox"/> 0.86 m ²	<input type="checkbox"/> _____
SOIL EXPOSURE FACTORS <input checked="" type="checkbox"/> COMPLETE (provide data) <input type="checkbox"/> NOT COMPLETE (skip)				
EF Exposure Frequency -Dermal Contact	<input type="checkbox"/> 350 dy/yr	<input type="checkbox"/> _____	<input type="checkbox"/> 40 dy/yr	<input type="checkbox"/> _____
-Soil Ingestion	<input type="checkbox"/> 350 dy/yr	<input type="checkbox"/> _____	<input type="checkbox"/> 250 dy/yr	<input type="checkbox"/> _____
SA _s Skin surface area (soil contact) -Adult (18 to 31 yrs, 70 kg)	<input type="checkbox"/> 0.58 m ²	<input type="checkbox"/> _____	<input type="checkbox"/> 0.58 m ²	<input type="checkbox"/> _____
-Child (1 - 17 yrs, 35 kg)	<input type="checkbox"/> 0.20 m ²	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
M Soil to skin adherence factor	<input type="checkbox"/> 1.0 mg/cm ²	<input type="checkbox"/> _____	<input type="checkbox"/> 1.0 mg/cm ²	<input type="checkbox"/> _____
IR _s Soil ingestion rate - Age-adjusted average	<input type="checkbox"/> 114 mg-yr /kg-dy	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
-Adult (7 to 31 yrs, 70 kg)	<input type="checkbox"/> 100 mg/dy (24-hr/dy)	<input type="checkbox"/> _____	<input type="checkbox"/> 50 mg/dy (8-hr/dy)	<input type="checkbox"/> _____
-Child (1 - 6 yrs, 15 kg)	<input type="checkbox"/> 200 mg/dy (24-hr/dy)	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
SURFACE WATER EXPOSURE FACTORS <input checked="" type="checkbox"/> COMPLETE (provide data) <input type="checkbox"/> NOT COMPLETE (skip)				
EF Exposure Frequency -Fish consumption	<input type="checkbox"/> 350 dy/yr	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
-Swimming	<input type="checkbox"/> 7 dy/yr	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
IR _f Daily fish intake rate -Freshwater	<input type="checkbox"/> 10 g/dy	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
-Saltwater	<input type="checkbox"/> 15 g/dy	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
SA _w Skin surface area (swimming) -Adult (70 kg)	<input type="checkbox"/> 0.86 m ²	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____
EP _{sw} Exposure period (swimming)	<input type="checkbox"/> 2.6 hrs/dy	<input type="checkbox"/> _____	<input type="checkbox"/> NA	<input type="checkbox"/> _____

SELECTION OF EXPOSURE PATHWAYS FOR TIER 2 EVALUATION

Instructions: Exposure pathways selection of contaminant pairs for Tier 2 evaluation involves the following steps:

- 1) Identify potentially complete exposure pathways from Tier 1.
- 2) Identify those pathways for which one or more COCs exceed the Tier 1 RBSLs
- 3) Fill in the COCs with RME concentrations exceeding the Tier 1 RBSLs
- 4) Check yes for each pathway that is potentially complete and has one or more COCs whose RME concentrations exceed the Tier 1 RBSL

Notes:

RBSL = Risk-Based Screening Level

POE = Point of Exposure

COC = Constituent of Concern

NM = Not Measured

PATHWAY	Potentially Complete Pathway?	Pathway Tier 1 RBSL Exceeded?	CONSTITUENTS	
			Identify COCs > Tier 1 RBSL	Evaluate at Tier 2?
AIR EXPOSURE PATHWAYS (TO SELECT)				
1) Surface Soils: Vapor Inhalation and Dust Ingestion	<input type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	None	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Current <input type="checkbox"/> Yes - Future
2) Subsurface Soils: Volatilization to Ambient Air	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Benzene	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Current <input checked="" type="checkbox"/> Yes - Future
3) Subsurface Soils: Volatilization to Enclosed Space	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Benzene	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Current <input checked="" type="checkbox"/> Yes - Future
4) Ground water: Volatilization to Ambient Air	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	None	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Current <input type="checkbox"/> Yes - Future
5) Ground water: Volatilization to Enclosed Space	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Benzene	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Current <input checked="" type="checkbox"/> Yes - Future
GROUND WATER EXPOSURE PATHWAYS				
6) Soil: Leaching to Ground water: Ingestion	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Benzene	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Current <input checked="" type="checkbox"/> Yes - Future
7) Dissolved or Free-Phase Ground water Plume: Ingestion	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Benzene	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Current <input checked="" type="checkbox"/> Yes - Future
SOIL EXPOSURE PATHWAY				
8) Surface Soils: Dermal Contact /Ingestion	<input checked="" type="checkbox"/> Current <input checked="" type="checkbox"/> Potential	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	None	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Current <input type="checkbox"/> Yes - Future

NA = Not Applicable

RBCA SUMMARY REPORT

Worksheet 5.1

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates

Page 1 of 1

SITE PARAMETER CHECKLIST FOR RISK-BASED SCREENING LEVELS

Instructions: For Tier 1 evaluation (generic screening levels), review specified default parameters (*) to ensure values are conservative for site. For Tier 2 Option 1 SSTL calculation (site-specific screening levels), provide site-specific values for sensitive parameters (§). Indicate parameter value used in evaluation by completing check box (■).

Note: * Confirm conservatism of these values for Tier 1 evaluation.

§ Provide site-specific measurement or estimate for Tier 2 evaluation.

Soil Parameters		Default Value Used	Site-Specific Value Used	
	soil type	■ sandy/clayey soil	<input type="checkbox"/> _____	* §
Θ _T	Soil porosity	<input type="checkbox"/> 0.38 (dim)	■ 0.25	§
Θ _{ws}	water content - vadose zone	<input type="checkbox"/> 0.12 (dim)	■ 0.04	§
Θ _{as}	air content - vadose zone (= Θ _T - Θ _{ws})	<input type="checkbox"/> 0.26 (dim)	■ 0.21	
Θ _{wcap}	water content - capillary fringe	■ 0.342 (dim)	<input type="checkbox"/> _____	
Θ _{acap}	air content - capillary fringe (= Θ _T - Θ _{wcap})	■ 0.038 (dim)	<input type="checkbox"/> _____	
ρ _s	Soil density	<input type="checkbox"/> 1.7 g/cm ³	■ 2.0	§
f _{oc}	mass fraction of organic carbon in soil	<input type="checkbox"/> 0.01 (dim)	■ 0.01	§
L _s	Depth to contaminated soil	<input type="checkbox"/> 100 cm	■ 122	§
L _{gw}	Depth to groundwater	<input type="checkbox"/> 300 cm	■ 305	§
h _{cap}	capillary zone thickness	■ 5 cm	<input type="checkbox"/> _____	
h _v	vadose zone thickness (= L _{gw} - h _{cap})	<input type="checkbox"/> 295 cm	■ 300	
pH	Soil/water pH	■ 6.5	<input type="checkbox"/> _____	
Groundwater Parameters				
I	Water infiltration rate	■ 30 cm/yr	<input type="checkbox"/> _____	§
V _{gw}	groundwater velocity	<input type="checkbox"/> 82.0 ft/yr	■ 144	* §
δ _{gw}	groundwater mixing zone depth	■ 200 cm	<input type="checkbox"/> _____	* §
DF	aquifer dilution factor (= 1 + V _{gw} δ _{gw} / (IW))	■ 12.1	<input type="checkbox"/> _____	
Surface Parameters				
U _{air}	Amb. air velocity in mixing zone	■ 225 cm/s	<input type="checkbox"/> _____	* §
δ _{air}	Mixing zone height	■ 200 cm	<input type="checkbox"/> _____	* §
A	Contaminated Area	■ 2250000 cm ²	<input type="checkbox"/> _____	
W	Width of Contaminated Area	■ 1500 cm	<input type="checkbox"/> _____	§
d	Thickness of Surficial Soils	■ 100 cm	<input type="checkbox"/> _____	§
Pe	Particulate areal emission rate	■ 2.17E-10 g/cm ² -s	<input type="checkbox"/> _____	§
Building Parameters				
L _{crack}	Foundation crack thickness	■ 15 cm	<input type="checkbox"/> _____	
η	Foundation crack fraction	■ 0.01 (dim)	<input type="checkbox"/> _____	
L _{b_r}	Building Volume/Foundation Area Ratio (res.)	■ 200 cm	<input type="checkbox"/> _____	
L _{b_o}	Building Volume/Foundation Area Ratio (com./ind.)	■ 300 cm	<input type="checkbox"/> _____	
ER _r	Building vapor volume exchange rate (res.)	<input type="checkbox"/> 12 dy ⁻¹	<input type="checkbox"/> _____	
ER _o	Building vapor volume exchange rate (com./ind.)	■ 20 dy ⁻¹	<input type="checkbox"/> _____	

Discussion: Provide rationale for default parameter revision; discuss additional site-specific features of note, etc.

- Soil porosity, soil density, water and air contents were determined by soil property analysis of collected samples
- Depth to contaminated soil is 4 ft.
- Depth to ground water is 10 ft.

(continue on next page if needed)

RBCA SUMMARY REPORT

Worksheet 5.2

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997
 Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates

Page 1 of 1

SUMMARY OF MEDIA INVESTIGATION & CHEMICAL ANALYSES

		Site Media Analyzed (■ TO SELECT)					
		Ground-water	Surface Soil	Subsurf. Soil	Soil Vapor	Ambient Vapor	Surface Water
Applicable?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sampled?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chemical Analysis	EPA Analysis Method	*ana. = chemical analyzed; *det. = chemical detected					
<i>Organic Chemicals</i>		ana./det.	ana./det.	ana./det.	ana./det.	ana./det.	ana./det.
Volatile Organics	8240 / 624	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Semi-Volatile Organics	8270 / 625	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Polynuclear Aromatic Hydrocarbons	8310 / 8270	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Purgeable Aromatics	8020 / 602	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Total Petroleum Hydrocarbons (GC)	8015G / 8015D	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<i>Halogenated Organic Chemicals</i>		ana./det.	ana./det.	ana./det.	ana./det.	ana./det.	ana./det.
Halogenated Volatile Organics	8010 / 601	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Organochlorine & PCBs	8080	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<i>Inorganic Chemicals</i>		ana./det.	ana./det.	ana./det.	ana./det.	ana./det.	ana./det.
Metals (Lead)	6010 / 7xxx series	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<i>Others</i>		ana./det.	ana./det.	ana./det.	ana./det.	ana./det.	ana./det.
• Organic Lead		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
• Total Oil and Grease		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
• E-Coli form (total and fecal)		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
• Chloride, nitrate, TDS		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
• Physical Properties		<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

DISCUSSION OF MEDIA INVESTIGATION & CHEMICAL ANALYSES

Items for discussion include: • Selection of sampled media • Selected analysis methods • Planned additional sampling

Items	
Soil	Soil samples from the waste oil tank area, the former UST area and from soil borings were analyzed for volatile organic carbons, purgeable aromatics, total petroleum hydrocarbons, organic lead, and total oil and grease prior to 1997.
Soil Vapor	Soil vapor samples were collected to define the extent of the source area in soils prior to 1997. A soil vapor profile survey was conducted in 1997 to assess the potential exposure due to vapors migrating to ground surface from soil and ground water beneath the site. Vapor samples were analyzed for BTEX compounds, MTBE, petroleum hydrocarbons, and gas constituents
Ground Water	Ground water monitoring has been conducted at the site since 1989 to determine the extent and migration of of the hydrocarbon-impacted ground water. Additional water samples were collected in August 1996 and analyzed for E. Coliform (total and fecal), chloride, nitrate, total dissolved solids, and halogenated volatile organic carbons.
Surface and Sub-surface Soils	Soil samples were collected in 1997 to determine any impact to site soils. These soil samples were taken from across the site and analyzed for petroleum hydrocarbons, BTEX compounds, and physical properties.

RBCA SUMMARY REPORT

Worksheet 5.3

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997
 Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates

Page 1 of 1

SUMMARY OF SOURCE ZONE CHARACTERISTICS

Instructions: Provide information regarding presence and dimensions of affected soil and groundwater zones. For each affected medium, list constituents of concern (COCs) and representative concentration data on Worksheets 5.4 - 5.6. Reference figures and Sample #'s used to establish source are characteristics for each media

AFFECTED SURFACE SOILS (≤ 3 FT BGS) (■ TO SELECT)

<input type="checkbox"/> Present <input type="checkbox"/> Not Present <input checked="" type="checkbox"/> Not Measured	If present, complete the following ⁽¹⁾ : • Maximum areal extent (ft ²): _____ • Width of affected zone (ft): _____ (Provide COC data on Worksheet 5.4) • Length of affected zone (ft): _____ • Depth interval (ft, BGS): _____
--	---

(1) Surface soil concentrations did not exceed Tier 1 RBSLs.

AFFECTED SUBSURFACE SOILS (> 3 FT BGS)

<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present <input type="checkbox"/> Not Measured	If present, complete the following ⁽²⁾ : • Depth to top of affected soil (ft) (min. 3 ft, BGS): _____ 4 (Provide COC data on Worksheet 5.5) • Depth to base of affected soil (ft, BGS): _____ 10 (approx. 240 x 120 ft) • Maximum areal extent (ft ²): _____ 28,800
--	---

(2) The maximum extent of impacted soils was conservatively determined by the area enclosed in between wells S-9, S-10, S-11, S-12, S-15, and S-16. The area that encloses the western product island, former waste oil tank and the former USTs is about 6,400 ft² (80 x 80 ft).

AFFECTED GROUNDWATER

<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present <input type="checkbox"/> Not Measured	If present, complete the following ⁽³⁾ : • Maximum areal extent (ft ²): _____ 57,600 (approx. 240 x 240 ft) • Length of plume (ft): _____ 240 (Provide COC data on Worksheet 5.6) • Width of plume (ft): _____ 240 • Depth to top of affected water-bearing unit (ft, BGS): _____ 10 • Depth to base of plume (ft, BGS): _____ 16
--	---

(3) The maximum areal extent of the impacted groundwater was conservatively determined by the area enclosed by wells S-11, S-12, S-13, S-15, S-16, S-17, and S-18, which define the ND line.

OTHER SOURCE MEDIUM

<input type="checkbox"/> Present <input checked="" type="checkbox"/> Not Present	If present, describe nature of material and dimensions: _____ _____ (Provide COC data on separate table) _____ _____
---	--

RBCA SUMMARY REPORT

Worksheet 5.5

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997
 Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates Page 1 of 1

SUBSURFACE SOIL CONCENTRATION DATA SUMMARY (>3 FT BGS)

Source of Data: Vadose Zone Characterization Report, June 1997, Weiss Associates.

Sample ID or Sample Set Used: SG-03, SG-04, and SG-07 at multiple depths

Worse Case Depth to Max. Impact: 4 ft

Sample Date: May 5, 1997

Methodology for Establishing Representative Concentrations:

For site surface soils, the representative concentration selection is the Maximum of positively detected results from soil samples > 3 ft BGS within the known source area.

This method establishes a representative concentration appropriate to conservatively evaluate subsurface soil exposure pathways.

CONSTITUENTS DETECTED		ANALYTICAL METHOD		SAMPLE POPULATION		DETECTED CONCENTRATIONS			SELECTED REPRESENTATIVE CONC. (mg/kg)
		Method No.	Typical Detection Limit (mg/kg)	No. of Samples	No. of Detects	Max Conc. (mg/kg)	Mean Conc. (mg/kg)	UCL Conc. (mg/kg)	
CAS No.	Name								
71-43-2	Benzene	8010	0.005	8	4	10	4.2	NC	10

NC- Not Calculated.

RBCA SUMMARY REPORT

Worksheet 5.6

Site Name: Former Shell Service Station, WIC #204-6852-1108

Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California

Completed By: Weiss Associates

Page 1 of 1

GROUNDWATER CONCENTRATION DATA SUMMARY

Source of Data: Quarterly Monitoring data from July 9, 1996 to April 8, 1997

Sample ID or Sample Set Used: S-1 through S-18 and SR-1

Worse Case Depth to Max. Impact: 6 ft

Sample Date: April 8, 1997

Methodology for Establishing Representative Concentrations:

The representative concentration in ground water is the [Arithmetic] Mean of the last 4 quarters of monitoring data for the most highly impacted [onsite/offsite] within the known source area.

This method establishes a representative concentration appropriate to conservatively evaluate ground water exposure pathways.

CONSTITUENTS DETECTED		ANALYTICAL METHOD		SAMPLE POPULATION		DETECTED CONCENTRATIONS			SELECTED REPRESENTATIVE CONC. (mg/Lg)
		Method No.	Typical Detection Limit (mg/Lg)	No. of Samples	No. of Detects	Max Conc. (mg/Lg)	Mean Conc. (mg/Lg)	UCL Conc. (mg/Lg)	
CAS No.	Name								
71-43-2	Benzene	8010	0.0005	25	15	1.4	0.45	NC	1.4

NC - Not Calculated.

RBCA SUMMARY REPORT

Worksheet 5.7

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997
 Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates Page 1 of 2

TIER 2 EXPOSURE PATHWAY TRANSPORT PARAMETERS

Instructions: For complete exposure pathways, provide site-specific values for transport parameters. In absence of direct measurements, default values may be selected for some parameters, as shown below. If no default value shown, site-specific value must be provided.

TRANSPORT PARAMETER	SITE-SPECIFIC VALUE (INPUT VALUE BELOW)	DEFAULT VALUE (■ TO SELECT)
AIR PARAMETERS		
δ_{air} Air mixing zone height (cm)		■ 200
U_{air} Ambient air velocity in mixing zone (cm/sec)		■ 225
Pe Soil particulate areal emission rate (g/cm ² -sec)		■ 2.17E-10
α_y Transverse air dispersion coeff. (m)		■ 100
σ_z Vertical air dispersion coeff. (m)		■ 10
GROUNDWATER PARAMETERS		
δ_{gw} Groundwater mixing zone depth (cm)		■ 200
I Water infiltration rate (cm/yr)		■ 30
V_{gw} Groundwater Darcy velocity (ft/yr)	144	
K Saturated hydraulic conductivity (cm/sec)	0.0035	
i_{grad} Lateral groundwater flow gradient (dim)	0.004	
$(BC)_i$ Available biodegradation capacity of electron acceptors for constituent i		
x Distance to POE from point of maximum COC concentration in groundwater (ft)	180	
α_x Longitudinal groundwater dispersion coeff. (cm)		■ 10% of x
α_y Transverse groundwater dispersion coeff. (cm)		■ 33% of α_x
α_z Vertical groundwater dispersion coeff. (cm)		■ 5% of α_z
SOIL PARAMETERS		
Capillary zone thickness (cm)		■ 5
Vadose zone thickness (ft)	10 ft	
Soil bulk density (g/cm ³)	2.0	
Fraction organic carbon in soil leaching zone (dim)	0.01	
Fraction organic carbon in water-bearing unit (dim)		■ 0.001
Depth to groundwater (cm)	304.8	
Soil porosity (dim)	0.25	
Soil volumetric water content (dim)		■ 0.342
• Capillary zone		■ 0.342
• Vadose zone	0.04	□ 0.12
• Foundation crack		■ 0.12

RBCA SUMMARY REPORT

Worksheet 5.7

Site Name: Former Shell Service Station, WIC #204-6852-1108 Date Completed: June 18, 1997
 Site Location: 15275 Washington Avenue, San Leandro, California Completed By: Weiss Associates Page 2 of 2

TIER 2 EXPOSURE PATHWAY TRANSPORT PARAMETERS CONTINUED

TRANSPORT PARAMETER	SITE-SPECIFIC VALU (INPUT VALUE BELOW)	DEFAULT VALUE (■ TO SELECT)
SOIL PARAMETERS (Continued)		
Soil volumetric air content (dlm)		
⊙ _{acap} •Capillary zone		■ 0.38
⊙ _{as} •Vadose zone	0.21	□ 0.26
⊙ _{acrack} •Foundation crack		■ 0.26
d Thickness of surficial soil zone (cm)		■ 100 cm
BUILDING PARAMETERS		
		Resid. Comm/ Ind.
L _b Building volume/area ratio (cm)		■ 200 ■ 300
ER Building air exchange rate (dy-1)		■ 12 ■ 20
L _{crack} Foundation crack thickness (cm)		■ 15
η Foundation crack fraction		■ 0.01

Additional Information:

Empty box for additional information.

RBCA SUMMARY REPORT

Worksheet 8.2

Site Name: Former Shell Service Station, WIC #204-6852-1108

Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California

Completed By: Weiss Associates

Page 1 of 1

SUBSURFACE SOIL SSSL VALUES (≥ 3 FT BGS) - COMMERCIAL/INDUSTRIAL OR RESIDENTIAL RECEPTORS

SSSL Calculation Option:

HI
(or HQ)
TR

Option 1: Site-Specific Screening Level

Option 2: Individual Constituent Limits 10^{-5} and MCL

Option 3: Cumulative Constituent Limits

Instructions: Specify target risk limits upon which Tier 2 site-specific screening levels (SSTLs) are based. Identify exposure pathways evaluated at Tier 2 for site (■ = complete). Record site sample measurements for constituents of concern (COCs) and corresponding SSSL values for complete pathways. Identify minimum SSSL value for each COC. Note whether site concentration exceeds minimum SSSL value.

SSSL RESULTS FOR COMPLETE EXPOSURE PATHWAYS (■ IF COMPLETE)

CONSTITUENTS OF CONCERN		REPRESENTATIVE CONC.	■ Leaching to Grdwtr.	■ Vapor Inhal. Outdoor Air	■ Vapor Inhal. Indoor Air	Minimum Value	SSSL Exceeded?
CAS No.	Name	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	■ If yes
71-43-2	Benzene	10	17	204	0.25	0.25	■
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

- Note:
- 1) See Worksheet 4.3 for identification of Complete Pathways.
 - 2) See Worksheet 4.5 for applicable Exposure Scenarios and Risk Goals.
 - 3) See Worksheet 5.4 for derivation of Representative Concentration for each COC in surface soil source zone.
 - TR = Target risk limit for excess lifetime carcinogenic risk.
 - HQ = Hazard quotient for individual constituent non-carcinogenic effects.
 - HI = Hazard index for cumulative constituent non-carcinogenic effects.
 - RGS = Selected risk level not exceeded for pur compound present at any concentration in soil.

RBCA SUMMARY REPORT

Worksheet 8.2

Site Name: Former Shell Service Station, WIC #204-6852-1108

Date Completed: June 18, 1997

Site Location: 15275 Washington Avenue, San Leandro, California

Completed By: Weiss Associates

Page 1 of 1

GROUNDWATER SSTL VALUES

SSTL Calculation Option:

- Option 1: Site-Specific Screening Level TR HI
(for HQ)
 Option 2: Individual Constituent Limits 10⁻⁵ and MCL
 Option 3: Cumulative Constituent Limits

Instructions: Specify target risk limits upon which Tier 2 site-specific screening levels (SSTLs) are based. Identify exposure pathways evaluated at Tier 2 for site (if complete). Record site sample measurements for constituents of concern (COCs) and corresponding SSTL values for complete pathways. Identify minimum SSTL value for each COC. Note whether site concentration exceeds minimum SSTL value.

SSTL RESULTS FOR COMPLETE EXPOSURE PATHWAYS (if complete)

CONSTITUENTS OF CONCERN	REPRESENTATIVE CONC.	SSTL RESULTS FOR COMPLETE EXPOSURE PATHWAYS (if complete)			Minimum Value	SSTL Exceeded?
		Grdwtr Ingestion	Vol. to Ambient Air	Vol. to Indoor Air		
CAS No.	Name	(mg/L)	(mg/L)	(mg/L)	(mg/L)	if yes
71-43-2	Benzene	1.4	2.0	0.86	0.86	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

- Note:
- See Worksheet 4.3 for identification of Complete Pathways.
 - See Worksheet 4.5 for applicable Exposure Scenarios and Risk Goals.
 - See Worksheet 5.6 for derivation of Representative Concentration for each COC in groundwater source zone.
- TR = Target risk limit for excess lifetime carcinogenic risk.
 HQ = Hazard quotient for individual constituent non-carcinogenic effects.
 HI = Hazard index for cumulative constituent non-carcinogenic effects.
 >S = At pure compound solubility, selected risk is not exceeded.

APPENDIX A

Parameters and calculations for evaluating exposure pathways via benzene volatilization from soil and ground water.

Parameters

The following soil properties were used in the calculations based on measurements for soil samples collected at the site.

Soil bulk density:	2,000	kg/m ³
Soil porosity:	0.25	
Air content:	0.21	
Water content:	0.04	
Fraction organic carbon:	0.01	

Following parameters were used in the calculation as site representative conditions.

Depth to contamination in soil:	4 ft.	Boring SG-03-4-6
Vertical thickness of contaminated soil:	6 ft.	4 ft to minimum ground water level at 10 ft.
Thickness of shallow aquifer:	10 ft.	Maximum thickness based on water levels.

ASTM default parameters were used for other variables.