



## Equity Enterprises

Real Estate Services and Development

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By Alameda County Environmental Health 10:10 am, Oct 13, 2016

October 10, 2016

Ms. Anne Jurek, M.S.  
Professional Technical Specialist II (Geology)  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502

Subject: Soil and Groundwater Investigation Report  
Main Street Property  
927 Main Street  
Pleasanton, California 94566  
ACEH Fuel Leak Case No. RO0003199  
GeoTracker Global ID No. T10000008158

Dear Ms. Jurek:

Equity Enterprises is pleased to present the enclosed report, prepared by Environmental Risk Assessors. The report presents the results of the supplemental site investigation of the property located at 927 Main Street in Pleasanton, California. This report is submitted pursuant to the requirements specified in the directive issued by Alameda County Department of Environmental Health (ACEH) dated August 25, 2016.

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.

Please feel free to call me at 925-484-3636 if you have any questions.

Sincerely,

  
Brad Hirst  
Equity Enterprises



Environmental Risk Assessors

## Soil and Groundwater Investigation Report

Main Street Property  
927 Main Street  
Pleasanton, California 94566

October 10, 2016

Prepared for:  
Equity Enterprises  
4460 Black Avenue, Suite L  
Pleasanton, CA 94566

Prepared by:  
Environmental Risk Assessors  
1420 East Roseville Parkway  
#140-262  
Roseville, CA 95661

ACEH Fuel Leak Case No. RO0003199

GeoTracker Global ID No. T10000008158

ERA Project No. 01-2016-1300-001





## Environmental Risk Assessors

October 10, 2016

Mr. Bradley A. Hirst  
Equity Enterprises  
4460 Black Avenue, Suite L  
Pleasanton, California 94566

**SUBJECT:** Soil and Groundwater Investigation  
Main Street Property  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

Dear Mr. Hirst,

Environmental Risk Assessors (ERA) is pleased to present this Soil and Groundwater Investigation (SSI) Report for the above-referenced property (the Site). Our scope of work and findings are presented in the attached report.

It has been a pleasure working with you on this project. Please do not hesitate to contact me at (916) 677-9897 and via email at [litafreeman@gmail.com](mailto:litafreeman@gmail.com) if you have any questions or comments regarding this assessment.

Sincerely,

Environmental Risk Assessors

Lita D. Freeman, PG  
Professional Geologist



Tel 916-677-9897  
[litafreeman@gmail.com](mailto:litafreeman@gmail.com)

1420 East Roseville Parkway  
Suite 140-262  
Roseville, California 95661

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- C Site Photographs
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- E Soil Boring Logs
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- G Town & Country Veterinary Hospital UST Removal Documents
- H CBRE Geophysical Survey Report dated March 30, 2016
- I ETIC's Groundwater Monitoring Report Dated September 9, 2009
- J ETIC's Well Survey Report Dated January 29, 2010

**CERTIFICATION**

Report Prepared By:



October 10, 2016

Lita D. Freeman, P.G.  
Principal Geoplogist  
California Professional Geologist No. 7368

Date

\* All information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a California Professional Geologist of Environmental Risk Assessors.

A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

## Environmental Risk Assessors

### 1. EXECUTIVE SUMMARY

Environmental Risk Assessors (ERA) is pleased to present this Soil and Groundwater Investigation (SSI) Report (the "Report") for the property located at 927 Main Street, Pleasanton, Alameda County, California (the "Site"; Figure 1) to Equity Enterprises. This SSI Report was prepared in accordance with a request from the Alameda County Department of Environmental Health (ACDEH) as noted in their email dated August 25, 2016 (see Appendix A). The following identification numbers have been assigned to the Site: ACDEH Fuel Leak Case No. RO0003199; and California Environmental Protection Agency (Cal-EPA) State Water Resources Control Board (SWRCB) GeoTracker Global ID No. T10000008158.

#### 1.1 Background

The Site consists of approximately 8,115 square feet of land identified as Alameda County Assessor Parcel Number 946-3370-22. The single-story 2,340-square-foot building located on the Site was constructed in 1980 and is currently occupied by a Subway sandwich shop and a Hanadi Sushi restaurant (Figure 2). Basics Environmental, Inc. (Basics Environmental) conducted a Phase I Environmental Site Assessment (ESA) in 2013 (Basics Environmental 2013). Information obtained by Basics Environmental revealed that the Site was occupied by a gasoline service station from the late 1930s until at least the early 1940s/early 1950s and an auto repair shop from at least the late 1930s until the late 1960s. No specific information on former operations (i.e., capacity of former underground storage tanks [USTs], type and locations of USTs, pump island locations, auto maintenance areas, and use of hazardous materials, etc.), removal of the USTs, or sampling during UST removal operations was obtained by Basics Environmental during the Phase I ESA.

The L-shaped parcel adjoining the Site to the south and west ("the south adjoining property") is currently developed with a multi-tenant single-story commercial building. A building formerly located on the south adjoining property was used as a gas and oil facility from at least the early 1950s until the late 1960s. This building, which had a canopy extending off the southeastern corner, extended onto the Site's southern portion. During the 1970s, a building housing a Robo-branded car wash was present on the south adjoining property and extended onto the Site's southwestern portion.

#### 1.2 Investigations

Based on the findings of Basics Environmental's Phase I ESA (Basics Environmental 2013), ERA conducted a limited Phase II ESA in November 2015. Based on the results of the Limited Phase II ESA, ACDEH requested additional investigation to evaluate the likely source(s) of the petroleum hydrocarbons in groundwater beneath the Site. The scope of work for the SSI was discussed with ACDEH's representatives during a meeting on June 29, 2016.

The objective of the investigations was to evaluate current subsurface conditions in select on-site areas. To meet this objective, soil gas, soil, and groundwater samples were collected from sampling locations for analysis with comparison of the analytical results to established screening levels. The investigations consisted of the following:

- Advancing two borings (SB-1 and SB-2 on Figure 2) in 2015 to depths of up to 40 feet below ground surface (bgs) to collect soil and groundwater samples for the initial assessment;
- Advancing borings at three locations (SB-3 through SB-5 on Figure 2) in 2016 to depths of up to 44 feet bgs to collect a soil gas sample to assess the vapor intrusion potential into the on-site building and soil and groundwater samples to assess photoionization detector (PID)

## Environmental Risk Assessors

readings previously obtained and assess conditions in the areas of the canopies associated with the former gas and oil facility on the Site and on the south adjoining property;

- Submitting the soil gas sample for naphthalene and methane analysis and soil and groundwater samples for total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg), TPH quantified as diesel (TPHd), TPH quantified as Stoddard solvent (TPHss), volatile organic compounds (VOCs); and/or Leaking Underground Fuel Tank (LUFT) Manual 5 metals (cadmium, chromium, lead, nickel, and zinc) analysis; and
- Preparing a report presenting the results of the investigations.

### 1.3 Findings

ETIC Engineering, Inc. (ETIC) conducted a groundwater monitoring event at the Mobil-branded service station formerly located at 1024 Main Street (approximately 145 feet northeast of the Site) during February 2009. Depth to water at that time was approximately 37 to 44 feet bgs and local groundwater flow direction was inferred to be to the east-northeast (ETIC 2009b). Historically, inferred local groundwater flow direction was generally northward (ETIC 2009b). ETIC calculated the groundwater gradient at the former Mobil-branded service station to be 0.0011, using data collected during the third quarter 2009 monitoring event (ETIC 2009b). This value indicates a relatively flat groundwater surface in the site vicinity.

The geology beneath the site vicinity is characterized by shallow clays and silts; these sediments are underlain by silty sands, gravelly sand, and sandy gravel which appear to be the main water-bearing unit in the site vicinity (ETIC 2009a). During ERA's site investigations, silt and silty clay were encountered from below the asphalt/baserock in boring SB-1 and from below the topsoil in boring SB-5 to the maximum depths explored in these borings. Coarse-grained sediments were encountered in borings SB-2, SB-3, and SB-4: sandy gravel was encountered from approximately 10 to 20 feet bgs in boring SB-2 and sandy gravel was encountered in borings SB-3 and SB-4 from below the asphalt/baserock to depths of approximately 14 feet bgs and 8 feet bgs, respectively.

PID readings for soil samples collected from boring SB-2 ranged from 209 to 376 parts per million volume (ppmv). These readings did not correlate with visual observations (no evidence of soil staining) or laboratory analysis of soil samples collected from this boring (analytes not detected at concentrations at or above laboratory reporting limits or detected at levels well below screening levels). PID readings for soil samples from boring SB-3 using an instrument obtained from another source were less than 2.7 ppmv except for the discolored soil sample collected at a depth of 40 feet bgs from boring SB-5 (83.9 ppmv). Based on the available information, the PID readings for borings SB-1 and SB-2 do not appear to be accurate. Evidence of petroleum hydrocarbon-impacted soil (green-colored soil with a petroleum hydrocarbon odor) was noted in borings SB-2, SB-3, and SB-5. The discolored soil intervals generally correspond to the intervals of moist to very moist soil and may represent petroleum hydrocarbons migrating in groundwater.

The analytical results for the samples collected during the investigations were compared to the Tier 1 Environmental Screening Levels (ESLs) as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB 2016) and revealed the following:

- The soil gas sample from SB-3 contained naphthalene at 11 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) which is below the ESL of  $41 \mu\text{g}/\text{m}^3$  and methane at 0.0009 percent (%) which is below the lower explosive limit of 5%;

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- TPHd (at a concentration of 16 milligrams per kilogram [mg/kg]) was detected in one shallow sample (SB-2-2) below the ESL of 240 mg/kg; petroleum hydrocarbons reported in deeper soil samples (32 to 36 feet bgs) appear to be likely related to migration of petroleum hydrocarbons in groundwater (TPHg at 0.99 mg/kg in SB-3-32 below the ESL of 100 mg/kg, naphthalene at 0.026 mg/kg in SB-5-36 slightly above the ESL of 0.023 mg/kg, ethylbenzene at 0.022 mg/kg in SB-3-32 below the ESL of 1.4 mg/kg, and total xylenes at 0.137 mg/kg in SB-3-32 and 0.022 mg/kg in SB-5-36 below the ESL of 2.3 mg/kg);
- TPHd (120 micrograms per liter [ $\mu\text{g/L}$ ]) in the groundwater from boring SB-1 was slightly above the ESL of 100  $\mu\text{g/L}$ ; TPHg (1,400  $\mu\text{g/L}$ ), TPHd (1,000  $\mu\text{g/L}$ ), and TPHss (1,400  $\mu\text{g/L}$ ) in the groundwater sample from boring SB-2 are above the ESLs of 100  $\mu\text{g/L}$  for each; naphthalene (5.3  $\mu\text{g/L}$ ) in the groundwater sample from boring SB-2 is above the ESL of 0.12  $\mu\text{g/L}$ ; ethylbenzene (6.1  $\mu\text{g/L}$ ) and xylenes (19  $\mu\text{g/L}$ ) in groundwater sample from boring SB-2 were below the ESLs of 13  $\mu\text{g/L}$  and 20  $\mu\text{g/L}$ , respectively; toluene (0.57  $\mu\text{g/L}$ ), ethylbenzene (1.7  $\mu\text{g/L}$ ), and xylenes (6.6  $\mu\text{g/L}$ ) in the groundwater sample from boring SB-3 were below the ESLs of 40  $\mu\text{g/L}$ , 13  $\mu\text{g/L}$ , and 20  $\mu\text{g/L}$ , respectively; TPHg (230  $\mu\text{g/L}$ ) and TPHss (940  $\mu\text{g/L}$ ) in the groundwater sample from boring SB-5 are above the ESLs of 100  $\mu\text{g/L}$  for each (SFBRWQCB 2016); naphthalene (19  $\mu\text{g/L}$ ) in the groundwater sample from boring SB-5 is above the ESL of 0.12  $\mu\text{g/L}$ ; ethylbenzene (2.8  $\mu\text{g/L}$ ) in groundwater sample from boring SB-5 was below the ESL of 13  $\mu\text{g/L}$ ; and total xylenes (40  $\mu\text{g/L}$ ) in groundwater sample from boring SB-5 were above the ESL of 20  $\mu\text{g/L}$ ; and
- Benzene and MTBE were not reported in soil samples at concentrations at or above their respective laboratory limit of 0.005 mg/kg and up to 0.020 mg/kg or groundwater samples at concentrations at or above their respective laboratory limit of 0.5  $\mu\text{g/L}$  and 0.5 to 1.0  $\mu\text{g/L}$ .

Additional research was conducted by ERA to help evaluate potential sources of the petroleum hydrocarbons detected beneath the Site. The results of the research are summarized below:

- Review of the SWRCB Geotracker website, the Cal-EPA Department of Toxic Substances Control (DTSC) Envirostor website, and the ACDEH Leaking Underground Fuel Tank/Spills, Leaks Investigation and Cleanup (LUFT/SLIC) website indicated that the Unocal property (located approximately 90 feet east of the Site across Main Street) and the City of Pleasanton Corporate Yard (the "Corporate Yard" located approximately 245 feet south-southeast of the Site) are potential sources for the petroleum hydrocarbons present in groundwater beneath the Site, based on the likely operations, proximity, upgradient location with respect to the site location and inferred local groundwater flow direction, etc.
- Review of tank removal documents obtained from Livermore-Pleasanton Fire Department (LFPD) by AEI Consultants (AEI) in 2010 (AEI 2010) indicated that two 350-gallon gasoline USTs were located just over 180 feet from the Site on the Town & Country Veterinary Hospital property located at 923 Main Street. The tank removal documents indicated the USTs were located north of the Town & Country Veterinary Hospital and were removed in 1988. Analytical data for soil samples, if any, collected during the tank removal operations were not available. Based on their distance from the Site and location to the west of the Site in a crossgradient to downgradient direction with respect to the site location and the inferred local groundwater flow direction, these USTs do not appear to be potential sources for the petroleum hydrocarbons present in groundwater beneath the Site.



## Environmental Risk Assessors

- Review of the historical aerial photographs contained in AEI's report (AEI 2010) and information in Basics Environmental's report (Basics Environmental 2013) indicated that the property located approximately 125 feet south of the Site (within the current alignment of Del Valle Parkway) was reportedly used as an auto sales lot from at least the mid-1950s until the mid-1980s. The auto sales lot extended westward from Main Street to a point southwest of the Site's western border. The Corporate Yard, located approximately 245 feet southeast of the Site, was developed with a small commercial-type building from at least the mid-1950s until the mid-1970s and a long rectangular building from at least the mid-1950s until the late-1990s. No information was obtained by AEI or Basics Environmental indicating that USTs were present at the former auto sales lot or at the Corporate Yard. However, operations at these properties may have included fueling operations and/or auto repair operations. These operations could be potential sources for the petroleum hydrocarbons present in groundwater beneath the Site based on the location of these properties to the south and in an upgradient direction from the Site with respect to the site location and the inferred local groundwater flow direction.
- Review of a geophysical survey report prepared by CBRE, Inc. (CBRE) indicated that CBRE performed a geophysical survey around the Site and on the adjoining properties to the south and west in March 2016 (CBRE 2016). According to CBRE, no anomalies indicative of USTs or disturbed soil were identified during the survey. Based on these results, no existing USTs appear to be present on or near the Site and no source for an ongoing release is apparent in the surveyed areas.

A site-specific preliminary Conceptual Site Model (CSM) was developed to help identify data gaps and to aid in the evaluation of the data collected to date. The CSM included information obtained during a water well survey conducted by ETIC in 2010 for the former Mobil gasoline service station located to the northeast of the Site across Main Street at 1024 Main Street. Based on the available information, the nearest well is more than 400 feet south and upgradient of the Site with respect to the site location and inferred local groundwater flow direction. The nearest well located in a downgradient direction was more than 1,600 feet north to northeast from the Site.

Data gaps identified include:

- The potential source for the petroleum hydrocarbons in groundwater beneath the Site has not been identified. Collection and analysis of additional groundwater samples from the Site is proposed to address this data gap.
- The potential for vapor intrusion from residual subsurface sources has not been assessed. Analysis of the groundwater sample from boring SB-5 revealed the presence of naphthalene at a concentration of 19 µg/L. Lack of soil gas data from the area of boring SB-5 has been identified as a data gap. Collection and analysis of a soil gas sample from the area of boring SB-5 is proposed to address this data gap.

The SWRCB's Low Threat UST Closure Policy (LTCP) and Technical Justification for Groundwater Media-Specific Criteria were reviewed for comparison to site data. Site-specific data not already presented above are summarized as follows:

- The Site's surface is covered by the on-site building, concrete sidewalk, asphalt pavement, and landscaping areas. Currently, the Site is used for commercial purposes and there are no redevelopment plans.

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- Direct contact with soil and outdoor air exposure does not appear to be a significant environmental or health concern, based on the lack of petroleum hydrocarbons in shallow soil above screening levels, current site conditions, and current commercial site use.
- Evaluation of vapor intrusion to indoor air utilized soil gas and soil data collected from the Site. Comparison of analytical results for soil samples collected from the 0- to 5-foot depth interval and the 5- to 10-foot depth interval revealed that the compounds listed in Table 1 of the LTCP (benzene, ethylbenzene, and naphthalene) were not detected at concentrations at or above the reporting limit of 0.005 mg/kg for each of these compounds and that the reporting limit was below the limits listed in Table 1 of the LTCP for these compounds. Naphthalene, ethylbenzene, and xylenes were detected in soil samples collected from intervals of discolored soil at depths of more than 32 feet bgs. Based on the lack of benzene, ethylbenzene, and naphthalene in shallow soil with a reporting limit for these compounds below the limits listed in Table 1 of the LTCP, lack of weathered petroleum hydrocarbons in shallow soil, and low levels of naphthalene (below ESL) and methane (below the Lower Explosive Limit [LEL]) in soil gas, petroleum vapor intrusion to indoor air does not appear to be a significant environmental or health concern at the Site.
- The Plume Study noted that benzene and MTBE were not detected in groundwater samples at concentrations at or above the laboratory reporting limits and mapped the length of the TPHg plume as approximately 65 feet as measured from the source area to the plume boundary. Based on the short, stabilized plume length of less than 100 feet for TPHg and lack of benzene and MTBE in groundwater which indicates a small or depleted source and/or very high natural attenuation rate, and the lack of receptors (existing water supply well or surface water body) within 250 feet of the Site, the Site satisfies the Class 1 Groundwater Plume Class Criteria.

### 1.4 Conclusions

The results of the investigations at the Site indicated that petroleum hydrocarbons are not present in shallow soil (except in one sample) but are present in deeper soil and groundwater. The concentrations detected in soil were below applicable ESLs and the limits listed in Table 1 of the LTCP while the concentrations detected in groundwater were above applicable ESLs.

The primary release from the UST system has been stopped and, based on the results of the geophysical survey and likely removal of USTs, if any, encountered during construction of the on-site building, existing USTs do not appear to be present on the Site and no source for an ongoing release is apparent in the surveyed areas. The likelihood of secondary sources (significant residual mass of petroleum hydrocarbons in soil across accessible areas of the Site) appears low, based on the available data. The highest concentrations of petroleum hydrocarbons in groundwater were reported in groundwater samples collected from boring SB-2 and SB-5, located south and east, respectively, of the on-site building. Based on the available data, the residual mass of petroleum hydrocarbons in groundwater appears localized to the southeastern corner of the on-site building.

Lack of detects in soil and groundwater samples from boring SB-4 indicates that a release does not appear to have occurred in the area of the former canopy located on the south adjoining property.

The Robo-branded car wash that was present on the south adjoining property and extended onto the Site's southwestern portion during the 1970s is a potential source for the petroleum hydrocarbons present in groundwater beneath the Site based on its upgradient location (with

## Environmental Risk Assessors

respect to the site location and inferred local groundwater flow direction) and proximity to the borings in which petroleum hydrocarbons were detected. However, it is unlikely that significant quantities of gasoline and diesel were stored at the car wash. The Unocal property (located approximately 90 feet east of the Site across Main Street), the City of Pleasanton Corporate Yard (located approximately 245 feet south-southeast of the Site), and the former auto sales lot (located approximately 125 feet south of the Site) are also potential sources for the petroleum hydrocarbons present in groundwater beneath the Site, based on the likely operations, proximity, upgradient location with respect to the site location and inferred local groundwater flow direction, etc.

### 1.5 Recommendations

Additional site characterization, to include collection and analysis of soil gas, soil, and groundwater samples is warranted to address data gaps identified during the site investigations. Specifically:

- Collection and analysis of additional groundwater samples from the area south and southwest of the Site is proposed to help evaluate the potential source(s) for the petroleum hydrocarbons in groundwater beneath the Site.
- Collection and analysis of a soil gas sample from the area east of the on-site building (at boring SB-5) is proposed to evaluate the potential for vapor intrusion from residual subsurface sources due to the detection of naphthalene in groundwater in this area.

## 2. INTRODUCTION

ERA has prepared this SSI Report on behalf of Equity Enterprises for the property located at 927 Main Street, Pleasanton, Alameda County, California (Figure 1). ACDEH requested this SSI Report as noted in their email dated August 25, 2016 (Appendix A). The Site is currently developed with one commercial building occupied by restaurants (Figure 2).

The Site has been listed as a case with the ACEH and the SWRCB. The following identification numbers have been assigned to the Site:

- ACEH Fuel Leak Case No. RO0003199; and
- GeoTracker Global ID No. T10000008158.

The findings and conclusions presented in this SSI Report are based on the results of site investigations that included collecting and analyzing soil gas, soil, and groundwater samples from the Site and evaluating the data obtained during the field investigation and provided by the analytical laboratory.

### 2.1 Objective and Purpose

The ultimate objective for the Site is to obtain regulatory case closure. The purpose of the work performed to date is summarized as follows:

- Assessing potential source(s) of the petroleum hydrocarbons detected in soil and groundwater beneath the Site by advancing borings in the areas of the former canopies associated with the gas and oil facility formerly located on and near the Site and collecting soil and groundwater samples from these borings for chemical analysis;
- Assessing the lateral and vertical extent of petroleum hydrocarbons in soil by advancing borings on and near the Site and collecting soil samples from these borings for chemical analysis;

## Environmental Risk Assessors

- Assessing the lateral extent of petroleum hydrocarbons in groundwater by advancing borings on and near the Site and collecting groundwater samples from these borings for chemical analysis;
- Assessing potential vapor intrusion into the on-site building by advancing one boring immediately south of the on-site building and collecting a soil gas sample from this boring for chemical analysis;
- Reviewing available information from regulatory agency websites and historical sources to help identify potential sources of the petroleum hydrocarbons beneath the Site; and
- Evaluating site conditions with respect to SWRCB's *Low-Threat Underground Storage Tank Case Closure Policy* (SWRCB 2012a).

### 2.2 Site Description

The Site is addressed 927 Main Street in Pleasanton, Alameda County, California, and consists of one approximately 8,115-square-foot Alameda County parcel of land. The Site is currently developed with one commercial building occupied by two tenants (Figure 2). Site-specific information is presented in Table 1.

<b>Project Name:</b> Main Street Property	<b>Current Development:</b> One 2,340-square-foot building
<b>Address:</b> 927 Main Street, Pleasanton, Alameda County	<b>Assessor Parcel Number (APN):</b> 946-3370-22
<b>Location:</b> Western side of Main Street	<b>Occupants:</b> Subway sandwiches and Hanadi Sushi restaurant

### 2.3 Qualifications

A summary of the ERA personnel who worked on this project follows:

- Ms. Lita Freeman, California Professional Geologist and California Asbestos Consultant, has over 25 years of experience providing site assessment services. This has included evaluating potential property impacts from historical on- and off-site operations, conducting subsurface investigations, and implementing site remediation plans. Ms. Freeman works with property owners, attorneys, and regulators to mitigate and resolve environmental issues.

## 3. BACKGROUND

### 3.1 Site History

The Alameda County Assessor's records indicated that one large parcel, identified as Alameda County APN 946-3370-7, was split into five separate parcels in 1978. Two of the parcels were subsequently identified as Alameda County APN 946-3370-22 (927 Main Street; the Site) and 946-3370-19 (917 Main Street; the south adjoining property).

According to historical information (including the 1943 and 1953 Sanborn Fire Insurance Maps and the 1951 aerial photograph) obtained by Basics Environmental during their Phase I ESA (Basics Environmental 2013), the Site was formerly occupied by a large rectangular building addressed 40 Santa Rita Road. The southeastern corner of the building featured an attached canopy and was used as a gas and oil facility from the late 1930s or early 1940s to the early 1950s. The remainder

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of the building was used as an auto repair facility from at least the late 1930s until the late 1960s. No specific information on former operations (i.e., capacity of former USTs, type and locations of USTs, pump island locations, auto maintenance areas, and use of hazardous materials, etc.), removal of the USTs, or sampling during UST removal operations was obtained by Basics Environmental from the local regulatory agency files reviewed during the Phase I ESA.

A small rectangular building with an attached canopy was formerly located on the south adjoining property (917 Main Street), as shown in the 1951 aerial photograph and the 1953 Sanborn Fire Insurance Map. This building, addressed 40A Santa Rita Road, was used as a gas and oil facility and extended onto the southern portion of the Site. The southeastern corner of the building featured an attached canopy.

During the 1970s, a building housing a Robo-branded car wash was present on the south adjoining property and extended onto the Site's southwestern portion.

The approximate footprints of the former large rectangular building and canopy (addressed 40 Santa Rita Road) located on the Site and former small rectangular building and canopy (addressed 40A Santa Rita Road) located on the south adjoining property are shown on Figure 2.

### 3.2 Previous Investigation

ERA conducted a subsurface investigation in 2015 as described in ERA's Limited Phase II ESA report (ERA 2015). A copy of ERA's Limited Phase II ESA report is presented in Appendix B.

Two borings (SB-1 and SB-2 as shown on Figure 2) were advanced at select on-site locations to collect soil and groundwater samples. The boring locations were selected based on available historical information and site observations, as follows:

- Boring SB-1 was placed immediately north of the on-site building and was drilled to a depth of 40 feet bgs;
- Boring SB-2 was placed immediately south of the on-site building and was drilled to a depth of 36 feet bgs.

Soil and groundwater samples were collected from each boring for analysis, as discussed below. The results are summarized in Tables 2 and 3 and on Figures 3 through 6.

#### 3.2.1 Soil Sampling

Soil samples collected from boring SB-1 (designated SB-1-5.5 from the 5.0 to 5.5 feet depth interval) and boring SB-2 (designated SB-2-2 from the 1.5 to 2 feet depth interval) were submitted for analyses as follows: TPHd, TPHg, TPHss, VOCs, and LUFT Manual 5 metals (cadmium, chromium, lead, nickel, and zinc).

Petroleum hydrocarbons were not detected in the soil samples at concentrations at or above their respective laboratory reporting limit with the exception of TPHd. As shown in Table 2, TPHd was reported in sample SB-2-2 at a concentration of 16 mg/kg.

VOCs were not detected in the soil samples at concentrations at or above their respective laboratory reporting limit (see Table 2).

Cadmium, chromium, lead, nickel, and/or zinc were detected in each of the two soil samples (see Table 3). Cadmium was not detected in sample SB-1-5.5 but was detected in sample SB-2-2 at a concentration of 0.36 mg/kg. The remaining metals were detected in both samples at the following

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maximum concentrations: chromium (up to 260 mg/kg), lead (up to 61 mg/kg), nickel (up to 240 mg/kg), and zinc (up to 110 mg/kg).

### 3.2.2 Groundwater Sampling

Groundwater samples collected from each boring were submitted for analyses as follows: TPHg, TPHd, TPHss, VOCs, and LUFT 5 metals.

Petroleum hydrocarbons were not detected in the groundwater sample (designated SB-1-W) from boring SB-1 at concentrations at or above their respective laboratory reporting limit with the exception of TPHd detected at a concentration of 120 µg/L. TPHg (at a concentration of 1,400 µg/L), TPHd (at a concentration of 1,000 µg/L), and TPHss (at a concentration of 1,400 µg/L) were reported in the groundwater sample (designated SB-2-W) from boring SB-2 (Table 2).

The VOCs bromodichloromethane (at a concentration of 1.3 µg/L) and chloroform (at a concentration of 5.5 µg/L) were detected in sample SB-1-W and various VOCs, including naphthalene (at a concentration of 5.3 µg/L), ethylbenzene (at a concentration of 6.1 µg/L), and xylenes (at a concentration of 19 µg/L), were detected in sample SB-2-W (see Table 2).

Groundwater samples were collected in unpreserved containers and filtered at the laboratory prior to metals analysis. Cadmium, lead, and zinc were not detected in the two groundwater samples (Table 3). Chromium was detected in sample SB-1-W at a concentration of 0.63 µg/L and nickel was detected in samples SB-1-W and SB-2-W at concentrations of 1.8 µg/L and 4.8 µg/L, respectively.

### 3.2.3 Evaluation

The concentrations of compounds of concern detected in soil and groundwater samples were compared to SFBRWQCB's ESLs (SFBRWQCB 2016). The ESLs have been updated since ERA's limited Phase II ESA report was issued; current values are presented in Tables 2 and 3 and on Figure 3 (SFBRWQCB 2016).

#### 3.2.3.1 Soil Results Evaluation

Comparison of the soil analytical results to the ESLs (SFBRWQCB 2016) indicate that the concentrations of detected compounds (petroleum hydrocarbons, VOCs, and metals) were below their respective ESLs with the exception of cadmium in both samples and nickel in sample SB-1-5.5 (Tables 2 and 3).

The laboratory reporting limit for cadmium of 0.25 mg/kg for sample SB-1-5.5 and the concentration of 0.36 mg/kg for cadmium in sample SB-2-2 were above the ESL of 0.00006 mg/kg. The SFBRWQCB noted the driver for the cadmium ESL is direct exposure and since the Site is covered with hardscape (pavement and building) this exposure route would not present a concern to on-site workers but could present a concern to utility workers while repairing, replacing, installing underground utilities in impacted areas. Chromium was detected at concentrations of 130 mg/kg to 260 mg/kg; these concentrations are above the ESL of 1.3 mg/kg for chromium VI (hexavalent chromium) but below the ESL of 120,000 mg/kg for chromium III (trivalent chromium). Based on lack of historical operation of a chrome plating shop on site (per historical information provided by Basic Environmental), chromium VI is likely not present on site. Nickel was detected in sample SB-1-5.5 at a concentration of 240 mg/kg which is above the ESL of 83 mg/kg (Table 3). Regional background levels for nickel have been reported at 55 mg/kg



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(Shacklette and Boerngen 1984) with the 95<sup>th</sup> and 99<sup>th</sup> percentile estimates established as 164 mg/kg and 272 mg/kg, respectively, during a Lawrence Berkeley National Laboratory study (Lawrence Berkeley National Laboratory 2009). Therefore, the concentrations of nickel would be within background levels for area soils.

### 3.2.3.2 Groundwater Results Evaluation

Comparison of the groundwater analytical results to the ESLs (SFBRWQCB 2016) indicated that the concentrations of TPHd (120 µg/L) in sample SB-1-W and TPHg (1,400 µg/L), TPHd (1,000 µg/L), and TPHss (1,400 µg/L) in the sample SB-2-W were above the ESL of 100 µg/L for each of these compounds (Table 2).

The VOC concentrations detected in both groundwater samples were below the ESLs (SFBRWQCB 2016) for groundwater with the exception of naphthalene in sample SB-2-W. Naphthalene was reported at a concentration of 5.3 µg/L, which is above the ESL of 0.12 µg/L (Table 2).

Comparison of the analytical results for metals to the ESLs (SFBRWQCB 2016) indicated that the metals concentrations reported for samples SB-1-W and SB-2-W were below their respective ESLs (Table 3).

### 3.2.4 Conclusion

Based on the results of the Limited Phase II ESA, further investigation was required by ACDEH.

## 4. SSI FIELD INVESTIGATION

The SSI was conducted to evaluate current conditions by collecting soil gas, soil, and groundwater samples from select on-site locations for analysis with comparison of the analytical results to established screening levels. The scope of work and results of the SSI are presented below.

Photographs of the Site and site investigation are included in Appendix C.

### 4.1 Pre-Field Activities

Before field activities associated with the proposed assessment were conducted, the pre-field tasks described below were completed.

#### 4.1.1 Health and Safety

ERA prepared a site-specific *Health and Safety Plan* for the scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by ERA personnel and subcontractors performing work at the Site.

#### 4.1.2 Permitting

ERA obtained a soil boring permit from Zone 7 prior to commencing intrusive field activities. ERA coordinated field activities with the Zone 7 and scheduled a Zone 7 inspector to document compliance with permit requirements.

In addition, an encroachment permit was obtained from the City of Pleasanton because advancing boring SB-5 required temporarily closing the sidewalk immediately east of the on-site building.



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Copies of the permits are presented in Appendix D.

### 4.2 Field Activities

#### 4.2.1 Utility Clearance

Before subsurface work was conducted at the Site, the soil boring locations were cleared for underground utilities by notifying Underground Services Alert North (USA North) at least 48 hours prior to intrusive field activities. In addition, A-Plus Utility Locating, a private utility locating contractor, cleared each proposed sampling location prior to intrusive field activities. Proposed sampling locations were adjusted, as necessary, to maintain a distance of at least 3 feet from identified underground utilities/structures.

#### 4.2.2 Drilling and Sampling

On July 22, 2016 and August 5, 2016, ERA personnel provided oversight of a field crew from Cascade Drilling, L.P. (Cascade) of Richmond, California, a California licensed driller, during advancement of the borings using a Geoprobe direct-push drilling rig. A total of three soil borings (SB-3, SB-4, and SB-5) were advanced at select on-site locations to collect soil gas, soil, and/or groundwater samples (Figure 2). The boring locations were selected based on available historical information and site observations, as follows:

- Boring SB-3 was advanced on July 22, 2016, to a depth of approximately 5 feet below the asphalt pavement at a location immediately south of the on-site building to collect a soil gas sample to assess the potential for vapor intrusion. Because of the pavement surface was several inches lower than the surface of the concrete floor slab of the on-site building, the depth of approximately 5 feet below the asphalt pavement was slightly more than 5 feet below the building foundation. A co-located boring (located within approximately 1 foot of the original boring) was advanced on August 5, 2016, to a depth of approximately 40 feet bgs to collect soil and groundwater samples and obtain PID readings of soil samples for comparison to PID readings obtained from soil samples collected from boring SB-2 in November 2015;
- Boring SB-4 was advanced to a depth of approximately 40 feet bgs at the approximate location of the former canopy associated with the former gas and oil facility on the south adjoining property to collect soil and groundwater samples to assess potential impacts from past fueling activities at this location; and
- Boring SB-5 was advanced to a depth of approximately 44 feet bgs in the approximate area of the canopy associated with the former on-site gas and oil facility to collect soil and groundwater samples to assess potential impacts from past fueling activities at this location.

Soil samples were screened in the field with a PID and observed for evidence of chemical staining. The soil screening procedures involved measuring approximately 30 grams of soil from a relatively undisturbed soil sample and placing this sample in a sealed zip-lock bag. The container was warmed in the sun for approximately 20 minutes, then the head space within the bag was tested for total organic vapor, measured in ppmv. During the November 2015 subsurface investigation, PID readings for soil samples collected from boring SB-2 were elevated (ranging from 209 to 376 ppmv). These readings did not correlate with visual observations (no evidence of soil staining) or laboratory analysis of soil samples collected from this boring (analytes not detected at concentrations at or above laboratory reporting limits or detected at

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levels well below screening levels [ESLs]). PID readings for soil samples from boring SB-3 advanced during the August 2016 subsurface investigation using an instrument obtained from another source did not support the elevated PID readings for soil samples from boring SB-2. The PID readings were recorded on the field boring logs which are included in Appendix E and are summarized below in Table 4.

<b>Boring</b>	<b>SB-1</b>	<b>SB-2</b>	<b>SB-3</b>	<b>SB-4</b>	<b>SB-5</b>
Depth (ft bgs)/PID Reading (ppmv)	-	-	-	3'/0	-
	5'/184	5'/264	4'/0	5'/0	5'/0
	10'/225	9.5'/209	8'/0	7'/0	8'/0
		-	12'/0	12'/0	12'/0
	15'/269	15'/267	16'/0	16'/0	16'/0
	20'/241	19.5'/298	-	19.5'/0	20'/0
	-	-	25'/0	25'/0	24'/0
	-	29.5'/376	30'/2.5	-	28'/0
	-	-	32'/1.8	-	-
	-	-	34'/0	-	-
	-	-	36'/0	-	36'/1.2
	-	-	37'/0	-	-
	-	-	-	-	39'/2.7
	-	-	-	-	40'/83.9

As shown in Table 4, PID readings ranged from 209 to 298 ppmv for the soil samples collected in the upper 20 feet of boring SB-2 while a PID reading of 0 ppmv was obtained for the soil samples from this same interval of boring SB-3. A PID reading of 376 ppmv was obtained for the one soil sample collected at a deeper depth (more than 29 feet bgs) from boring SB-2 while the highest PID reading for deeper soil samples from boring SB-3 was 2.5 ppmv. Based on the available information, the PID readings for boring SB-1 and SB-2 do not appear to be accurate.

The highest PID reading was 83.9 ppmv for the soil sample collected from boring SB-5 at the 40-foot depth (see Table 4). The elevated PID reading generally correlated to the discolored soil intervals, as noted below. The remaining PID readings for soil in borings SB-3 and SB-5 were less than 2.7 ppmv with the majority being 0.0 ppmv.

Evidence of petroleum hydrocarbon-impacted soil (green-colored soil with a petroleum hydrocarbon odor) was noted by ERA's staff in soil borings SB-2, SB-3, and SB-5 during the subsurface investigations. The intervals of petroleum hydrocarbon-impacted soil generally correspond to the interval of moist to very moist soil in these borings and may represent petroleum hydrocarbons migrating in groundwater. The discolored soil is likely related to a "smear" zone of petroleum hydrocarbons based on the apparent correlation between the intervals with discolored soil and the depth to water. Discolored soil intervals are summarized in Table 5 below.

<b>Boring</b>	<b>SB-1</b>	<b>SB-2</b>	<b>SB-3</b>	<b>SB-4</b>	<b>SB-5</b>
Discolored soil interval (ft bgs)	--	30 - 34	31 - 33	-	31 - 32
	-	-	34 - 36	-	34 - 39
Depth to Groundwater	34	35	38	38	37
Total Boring Depth	40	36	40	40	44

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### 4.2.2.1 Soil Gas Sampling

A soil gas sample was collected in general accordance with the protocols presented in the *Advisory Active Soil Gas Investigations* prepared by the Cal-EPA DTSC, Los Angeles RWQCB (LARWQCB), and SFBRWQCB (DTSC, LARWQCB, and SFBRWQCB 2015).

The soil gas sample was collected from a temporary soil gas probe advanced at boring SB-3 to a depth of approximately 5 feet below the bottom of the on-site building foundation. The soil gas probe was placed outside the building footprint rather than inside the building because of access constraints. Concrete sidewalks and pavements extend from the perimeter of the on-site building to the soil gas sampling location. The soil gas sample was collected approximately 2 hours after installing the soil gas probe. The soil gas probe installation method and equilibration time was recorded in the field log book.

Prior to purging or sampling, a shut-in test was conducted to check for leaks in the above-ground sampling system. A leak test was used to evaluate whether ambient air was introduced into the soil gas sample during the collection process. Helium, a gaseous tracer compound, was used along with a shroud placed over the sampling equipment. An ambient air leak of up to 5 percent was deemed acceptable. Purging of three purge volumes was performed to remove stagnant air from the sampling system so that representative samples can be collected from the subsurface. Flow rates between 100 to 200 milliliters per minute (mL/min) and vacuums less than 100 inches of water were maintained during purging and sampling to minimize stripping (partitioning of vapors from pore water to soil gas), to prevent ambient air from diluting the soil gas samples, and to reduce variability between contractors.

The soil gas sample was collected in an evacuated 1-liter stainless steel Summa canister equipped with regulators to control sample collection flow rate. Beginning and ending vacuum readings were recorded for the canister.

The soil gas sample was transported under chain-of-custody protocols to McCampbell Analytical, Inc. (McCampbell Analytical) of Pittsburg, California, by a laboratory-provided courier.

### 4.2.2.2 Soil Sampling

Soil sampling was conducted during drilling using new acetate sleeves. Soil samples were collected for submittal to the analytical laboratory at depth intervals of 0 to 5 feet bgs, 5 to 10 feet bgs, and/or within discolored intervals by cutting the acetate sleeves and capping each end with Teflon squares and plastic end caps. A label with the boring identification number and the bottom depth (e.g., 5 feet bgs) of the sampling interval was placed on each sample.

The soil samples were placed on ice and transported under chain-of-custody protocols to SunStar Laboratories, Inc. (SunStar) of Lake Forest, California, by a laboratory-provided courier.

### 4.2.2.3 Groundwater Sampling

New polyvinyl chloride (PVC) casing (with slotted casing in the lower 10 feet and blank casing from above the slotted casing to the ground surface) was placed in each boring. Groundwater was allowed to flow into the casing at each location for approximately one hour. Groundwater was not purged prior to sampling because of the anticipated limited quantity of water in each

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boring. Groundwater samples were collected in laboratory-provided containers appropriate for the requested analysis.

The groundwater samples containers were labeled with the boring identification number, placed on ice, and transported under chain-of-custody protocols to SunStar by a laboratory-provided courier.

### 4.2.3 Borehole Abandonment and Investigation-Derived Waste Handling

After the sampling activities were complete, each boring was backfilled with cement grout and bentonite in accordance with the Zone 7 permit requirements and the Zone 7 inspector's directions.

Investigation-derived waste (IDW), which was limited to soil cuttings, produced during sampling activities were containerized in one 55-gallon container and left on the Site pending receipt of analytical results and evaluation of appropriate off-site disposal options.

## 4.3 Analysis, Results, and Evaluation

The soil gas, soil, and groundwater samples were submitted to the project laboratories which are certified by the State of California to perform the requested analyses. The analytical methods, results, and evaluation of this SSI are presented below. Copies of the laboratory analytical report and chain-of-custody documentation are presented in Appendix F.

### 4.3.1 Soil Gas Analysis and Results

A soil gas sample was collected from boring SB-3 and analyzed for naphthalene and methane using American Society for Testing Materials International (ASTM) D 1946-90 by McCampbell Analytical (see McCampbell Analytical report in Appendix F).

Analysis of the soil gas sample revealed the presence of naphthalene at a concentration of 11 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and methane at 0.0009 percent (%).

The analytical results for the compounds detected in the soil gas samples are discussed below in Section 4.4.1.

### 4.3.2 Soil Analysis and Results

Soil samples collected from the following depth intervals were analyzed:

- Boring SB-3: 9.5 to 10.0 feet and 31.5 to 32.0 feet;
- Boring SB-4: 2.5 to 3.0 feet and 7.0 to 7.5 feet; and
- Boring SB-5: 4 to 4.5 feet, 7.5 to 8.0 feet, and 35.5 to 36.0 feet

Although samples SB-3-32 and SB-5-36 were collected from below the groundwater table, the samples were submitted for analysis because they were within a depth interval that was noted to be discolored with a slight petroleum hydrocarbon odor.

The above-noted soil samples were analyzed as follows (see Table 2):

- TPHg, TPHd, and TPHss using U.S. Environmental Protection Agency (U.S. EPA) SW8015B without silica gel cleanup; and

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- Select VOCs (naphthalene, BTEX) using U.S. EPA Method 8260B.

The analysis of the soil samples revealed the following (see Table 2):

- TPHg, TPHd, and TPHss were not detected in the soil samples analyzed at concentrations at or above the laboratory reporting limit of 0.005 mg/kg with the exception of TPHg reported in soil sample SB-3-32 at a concentration of 0.99 mg/kg;
- Benzene was not detected in the soil samples analyzed at concentrations at or above the laboratory reporting limit of 0.005 mg/kg;
- Naphthalene (laboratory reporting limit of 0.005 mg/kg) was detected in soil sample SB-5-36 at a concentration of 0.026 mg/kg;
- Toluene was not detected in the soil samples analyzed at concentrations at or above the laboratory reporting limit of 0.005 mg/kg;
- Ethylbenzene (laboratory reporting limit of 0.005 mg/kg) was detected in soil sample SB-3-32 at a concentration of 0.022 mg/kg; and
- Total xylenes (laboratory reporting limit of 0.005 mg/kg) was detected in soil samples SB-3-32 and SB-5-36 at concentrations of 0.137 mg/kg and 0.022 mg/kg, respectively.

The analytical results for the compounds detected in the soil samples are presented in Table 2 and discussed below in Section 4.4.2.

### 4.3.3 Groundwater Analysis and Results

The groundwater samples were submitted for analyses as follows:

- TPHg, TPHd, and TPHss using U.S. EPA SW8015B without silica gel cleanup; and
- Select VOCs (naphthalene, BTEX) using U.S. EPA Method 8260B.

The analysis of the groundwater samples revealed the following (see Table 2):

- TPHg (laboratory reporting limit of 50 µg/L) was detected in the groundwater sample from boring SB-5 at a concentration of 230 µg/L;
- TPHd (laboratory reporting limit of 50 µg/L) was not detected in the groundwater samples from borings SB-3, SB-4, and SB-5;
- TPHss (laboratory reporting limit of 50 µg/L) was detected in the groundwater sample from boring SB-5 at a concentration of 940 µg/L;
- Benzene (laboratory reporting limit of 0.50 µg/L) was not detected in the groundwater samples from borings SB-3, SB-4, and SB-5;
- Naphthalene (laboratory reporting limit of 0.5 µg/L to 1 µg/L) was detected in the groundwater sample from boring SB-5 at a concentration of 19 µg/L;
- Toluene (laboratory reporting limit of 0.50 µg/L) was detected in the groundwater sample from boring SB-3 at a concentration of 0.57 µg/L;
- Ethylbenzene (laboratory reporting limit of 0.50 µg/L) was detected in the groundwater samples from borings SB-3 and SB-5 at concentrations of 1.7 µg/L and 2.8 µg/L,

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respectively; and

- Total xylenes (laboratory reporting limit of 0.5 µg/L) was detected in the groundwater samples from borings SB-3 and SB-5 at concentrations of 6.6 µg/L and 40 µg/L, respectively.

The analytical results for the compounds detected in the groundwater samples are presented in Table 2 and discussed below in Section 4.4.3.

### 4.4 EVALUATION

The concentrations of compounds of concern detected in soil gas, soil, and groundwater samples were compared to ESLs as established by the SFBRWQCB (SFBRWQCB 2016).

#### 4.4.1 Soil Gas Results Evaluation

Analysis of the soil gas sample revealed the presence of naphthalene at a concentration of 11 micrograms per cubic meter (µg/m<sup>3</sup>) and methane at 0.0009 percent (%). The naphthalene concentration was below the ESL of 41 µg/m<sup>3</sup> for naphthalene in soil gas as established by the SFBRWQCB (SFBRWQCB 2016). The methane concentration was below the lower explosive limit of 5%.

#### 4.4.2 Soil Results Evaluation

Comparison of the analytical results to the ESLs for soil (SFBRWQCB 2016) indicated the following (see Table 2):

- Naphthalene: the concentration of 0.026 mg/kg in sample SB-5-36 is slightly above the ESL of 0.023 mg/kg;
- Ethylbenzene: the concentration of 0.022 mg/kg in sample SB-3-32 is below the ESL of 1.4 mg/kg; and
- Total xylenes: the concentrations of 0.137 mg/kg and 0.022 mg/kg, respectively, reported in samples SB-3-32 and SB-5-36 are below the ESL of 2.3 mg/kg.

#### 4.4.3 Groundwater Results Evaluation

Comparison of the analytical results to the ESLs for groundwater (SFBRWQCB 2016) indicated the following (see Table 2):

- TPHg: the concentration of 230 µg/L in sample SB-5-W is above the ESL of 100 µg/L;
- TPHss: the concentration of 940 µg/L in sample SB-5-W is above the ESL of 100 µg/L;
- Naphthalene: the concentration of 19 µg/L in sample SB-5-W is above the ESL of 0.12 µg/L;
- Toluene: the concentration of 0.57 µg/L in sample SB-3-W is below the ESL of 40 µg/L;
- Ethylbenzene: the concentrations of 1.7 µg/L and 2.8 µg/L in samples SB-3-W and SB-5-W, respectively, are below the ESL of 13 µg/L; and
- Total xylenes: the concentration of 6.6 µg/L in sample SB-3-W was below the ESL of 20 µg/L and the concentration of 40 µg/L in sample SB-5-W was above the ESL.



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### 5. ADDITIONAL EVALUATION

#### 5.1 HISTORICAL RESEARCH

##### 5.1.1 Geotracker, Envirostor, and LUFT/SLIC Websites

ERA reviewed the SWRCB Geotracker website, the DTSC Envirostor website, and the ACDEH Leaking Underground Fuel Tank/Spills, Leaks Investigation and Cleanup (LUFT/SLIC) website for information on potential off-site sources for the petroleum hydrocarbons present in groundwater beneath the Site. These properties would be located in an upgradient direction (e.g., properties to the Site's south and west with reported releases) from the Site with respect to inferred local groundwater flow direction.

The following information was obtained from these websites:

- Geotracker mapped one property to the south of the Site. This property, addressed 780 Main Street and located approximately 700 feet south of the Site, was formerly occupied by a Chevron gasoline service station. According to the available information, a release of gasoline to soil was discovered in 1994; case closure was granted by the SFBRWQCB on January 2, 1996. Based on the distance of this former gasoline service station from the Site, the presence of Arroyo Del Valle and Del Valle Parkway (potential barriers to groundwater flow) between this property and the Site, the reported release of gasoline only to soil, and the redevelopment of this property, the reported release at this property would be unlikely to be a potential source for the petroleum hydrocarbons present in groundwater beneath the Site.
- The Geotracker and ACDEH LUFT/SLIC websites indicated that the Mobil-branded service station formerly located approximately 145 feet northeast of the Site at 1024 Main Street had a reported release of diesel and gasoline that impacted groundwater. Extensive subsurface investigations and remedial activities were conducted at the Mobil property. Analysis of groundwater samples collected from well MW-4 (located just north of Stanley Boulevard) revealed TPHg at concentrations of 27,000 µg/L in 1994 and 49 µg/L in 2009; benzene was reported at concentrations of 1,200 µg/L in 1994 and less than 0.5 µg/L in 2009 (ETIC 2009b). Case closure was granted for the Mobil property was granted by the SFBRWQCB on July 14, 2010. Based on the groundwater analytical data from wells on and near the Mobil property and the location of the Mobil property in a downgradient direction with respect to the site location and inferred local groundwater flow direction, the reported release at the Mobil property would be unlikely to be a potential source for the petroleum hydrocarbons present in groundwater beneath the Site.
- The Geotracker and ACDEH LUFT/SLIC websites indicated that the former Unocal-branded service station ("Unocal") located approximately 90 feet east of the Site at 992 Main Street had a reported release of diesel and gasoline that impacted groundwater. According to figures presented in the case closure summary on the ACDEH LUFT/SLIC website, groundwater flow direction was reported as variable with flow reported to the west (toward the Site) with a gradient of 0.06 during the August 1996 groundwater monitoring event. The case closure summary also noted that the Unocal property may have been impacted by activities at the City of Pleasanton Corporate Yard ("Corporate Yard") located to the south of the Unocal property (approximately 245 feet southeast of the Site). Case closure for the Unocal property was granted by the SFBRWQCB on September 12, 1997. Based on the reported westward groundwater flow direction at the Unocal property in the



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past, the release at this property is a potential source of the petroleum hydrocarbons in groundwater beneath the Site.

- The case closure summary posted on the ACDEH LUFT/SLIC website for the Unocal property at 992 Main Street noted that the Corporate Yard was located to the south of the Unocal property (approximately 245 feet southeast of the Site). Available information did not indicate the presence of USTs or a reported release at the Corporate Yard. As noted in Section 5.1.2, buildings were visible at the Corporate Yard between 1959 and 1996. Based on the likely operations (fueling, vehicle repairs, etc.), proximity, and upgradient location with respect to the site location and inferred local groundwater flow direction, the Corporate Yard is a potential source for the petroleum hydrocarbons present in groundwater beneath the Site.

Based on the available information (known or likely operations, proximity, upgradient location with respect to the site location and inferred local groundwater flow direction, etc.), the Unocal property located approximately 90 feet to the east of the Site across Main Street and the City of Pleasanton Corporate Yard located approximately 245 feet to the southeast of the Site are potential sources for the petroleum hydrocarbons present in groundwater beneath the Site.

### 5.1.2 Historical Aerial Photographs and Sanborn Fire Insurance Maps

ERA reviewed information presented in the Phase I ESA reports prepared by AEI Consultants (AEI) in 2010 (AEI 2010) and Basics Environmental in 2013 (Basics Environmental 2013) to evaluate potential off-site sources (e.g., USTs, fueling activities, etc.) for the petroleum hydrocarbons present in groundwater beneath the Site.

During their Phase I ESA of the Site in 2010, AEI staff reviewed the files of the Livermore-Pleasanton Fire Department (LPPFD) for information on USTs and hazardous materials storage on site (AEI 2010). AEI noted that the LPPFD files contained tank removal documents for the Town & Country Veterinary Hospital property located approximately 130 feet west of the Site at 923 Main Street. Copies of the documents related to the UST removal that were obtained by AEI are presented in Appendix G. Review of the tank removal documents revealed the following:

- Two 350-gallon gasoline USTs were reportedly located to the north of the Town & Country Veterinary Hospital and approximately 180 feet west of the northwestern corner of the on-site building;
- The USTs were reportedly in place for approximately 15 years when they were removed in March 1988 by Barrington Construction under the oversight of Clayton Environmental Consultants;
- Available documentation noted that the tanks were triple rinsed and removed as scrap by Fuel Oil Polishing Company of Sonoma, California to the facility operated by West Coast Metals of Windsor, California; and
- Analytical data for soil samples, if any, collected during the tank removal operations were not available.

No additional information was available on the UST removals from the Town & Country Veterinary Hospital property. Based on the distance of more than 180 feet from the Site and location to the west of the Site in a crossgradient to downgradient direction with respect to the site location and

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the inferred local groundwater flow direction, these USTs do not appear to be potential sources for the petroleum hydrocarbons present in groundwater beneath the Site.

AEI also reviewed historical aerial photographs and included copies in their Phase I ESA report; these historical aerial photographs were reviewed by ERA staff (AEI 2010). Presented below is a summary of information obtained by ERA's review of the historical aerial photographs on past uses of the properties to the south of the Site and in an upgradient direction with respect to the Site and inferred local groundwater flow direction.

- 1951 Aerial Photograph: The gas and oil station previously noted (Section 3.1) was visible on the south adjoining property, beyond which is undeveloped land.
- 1959 Aerial Photograph: No significant changes to the south adjoining property are noted by ERA. The gas and oil station previously noted on the south adjoining property was visible, beyond which is a small commercial-type building located within the current alignment of Del Valle Parkway and reportedly used as an auto sales lot. The auto sales lot (located approximately 125 feet south of the Site) extended westward from Main Street to a point southwest of the Site's western border. A driveway encircles the building and a number of vehicles are visible around the perimeter of the auto sales lot property. The City of Pleasanton Corporate Yard located approximately 245 feet southeast of the Site was developed with a small commercial-type building and a long rectangular building. As noted in Section 5.1.1, the Corporate Yard was reported to be present at this location.
- 1969 Aerial Photograph: No significant changes to the south adjoining property were noted by ERA. The small commercial-type building located within the current alignment of Del Valle Parkway is still visible farther south. A larger square-shaped building is visible on the southwestern portion of this property and numerous vehicles are present on this property. Basics Environmental notes that this property was likely an auto sales lot. The Corporate Yard located southeast of the Site appears unchanged from the previous photograph.
- 1978 Aerial Photograph: A large building with a concrete pad adjacent to the north is present on the southwestern portion of the Site; this building extends to the southwest onto the south adjoining property. This building is likely the car wash that AEI noted was reportedly present on site in the 1970s. The property farther south (within the current alignment of Del Valle Parkway) is still developed with the two buildings observed in the previous photograph (small commercial-type building and larger square-shaped building located within the current alignment of Del Valle Parkway); numerous vehicles are present around these buildings. AEI noted that this property was used as an auto sales lot. The smaller of the two buildings on the Corporate Yard has been demolished by this time but the larger building was still present.
- 1988 - 2002 Aerial Photographs: ERA noted that the Site and adjoining property to the south are developed with the currently existing buildings. The buildings previously noted on the property farther south have been demolished and Del Valle Parkway is present in its current alignment. The rectangular building was visible at the Corporate Yard in the 1978, 1988, and 1996 aerial photographs but had been demolished by the time of the 2002 aerial photograph.

No information was obtained by AEI or Basics Environmental indicating that USTs were present on at the former auto sales lot to the south of the Site within the area of the current alignment of Del

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Valle Parkway or at the City of Pleasanton Corporate Yard. However, operations at these properties may have included fueling operations and/or auto repair operations. These operations could be potential sources for the petroleum hydrocarbons present in groundwater beneath the Site based on the location of these properties to the south and in an upgradient direction from the Site with respect to the site location and the inferred local groundwater flow direction.

### 5.2 GEOPHYSICAL SURVEY

ERA was provided a report of a geophysical survey performed around the Site and on the adjoining properties to the south and west. The survey was conducted by CBRE, Inc. (CBRE) in March 2016 (CBRE 2016). Information obtained from this report is summarized below.

- Equipment used during the survey included a ground penetrating radar unit with a 400 MHz antenna which allow a below ground scanning depth of 3.5 to 4 feet, a magnetometer capable of detecting iron and steel, and a radiofrequency detection system to identify subsurface pipes.
- The surveyed area included the paved parking lots and driveways adjacent to the north, south, and west of the on-site building; the paved parking lots and driveways adjacent to the north, east, and west of the building located west of the Site at 915 Main Street; the paved parking lots and driveways adjacent to the west of the building located north of the Site at 929 Main Street; and the paved parking lots and driveways adjacent to the east of the Town & Country Veterinary Hospital building located west of the Site at 923 Main Street. The surveyed area included the former USTs location to the north of the Town & Country Veterinary Hospital building.

According to CBRE, no anomalies indicative of USTs or disturbed soil were identified during the survey. Based on the results of the geophysical survey and likely removal of USTs, if any, encountered during construction of the on-site building, existing USTs do not appear to be present on the Site and no source for an ongoing release is apparent in the surveyed areas.

A copy of CBRE's report is presented in Appendix H.

### 5.3 GROUNDWATER GRADIENT

ETIC conducted regular groundwater monitoring events at the former Mobil-branded service station, located approximately 145 feet northeast of the Site at 1024 Main Street. Depth-to-water measurements were collected from groundwater monitoring wells at the Mobil property by ETIC during the third quarter 2009 monitoring event (ETIC 2009b). This monitoring event as the last event before case closure was granted by the SFBRWQCB (ETIC 2009b). ETIC calculated the groundwater gradient at the Mobil property to be 0.0011, based on data collected during the third quarter 2009 monitoring event (ETIC 2009b). This value indicates a relatively flat groundwater surface in the site vicinity.

## 6. PRELIMINARY CONCEPTUAL SITE MODEL

The Conceptual Site Model (CSM) documents the physical setting, chemicals of potential concern (COPCs), COPC sources, COPC distribution in soil gas, soil, and/or groundwater (including plume stability), potential migration pathways, and potential receptors/exposure pathways. Data collected during the investigations conducted to date, which indicate a release of petroleum hydrocarbons

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has impacted the Site, have been used to develop a site-specific preliminary CSM. The purpose of the preliminary CSM is to help identify data gaps and to aid in the evaluation of the data collected to date from the Site.

### 6.1 Geology and Hydrogeology

Local and site-specific geologic and hydrogeologic information is presented below.

#### 6.1.1 Local Geology and Hydrogeology

Based on available information obtained by ETIC during investigations at the former Mobil-branded service station located approximately 145 feet northeast of the Site at 1024 Main Street, the geology beneath the site vicinity is characterized by clays and silts (“the clay/silt unit”) to depths of approximately 35 feet bgs (ETIC 2009a). The clays and silts are underlain by silty sands, gravelly sand, and sandy gravel (“the sand/gravel unit”). These coarse-grained sediments appeared to be the main water-bearing unit in the site vicinity. The coarse-grained sediments appear to be underlain by fine-grained sediments as some borings advanced at the Mobil property reportedly encountered a layer of clay at a depth of approximately 50 feet bgs.

According to ETIC, depth to water in the monitoring wells at the former property varied depending on the screened intervals of the wells. Perched water was encountered at variable shallow depths (less than 35 feet bgs) while the depth to water in the sand/gravel unit was generally 37 to 44 feet bgs (ETIC 2009a).

The Site is located within the Amador Sub-Basin of the Livermore Valley Groundwater Basin. Regional groundwater flow direction within this basin is reported to be southward. However, local groundwater flow in the site vicinity was typically calculated to be in a northerly direction. Depth-to-water measurements collected by ETIC at the former Mobil-branded service station during the first quarter 2009 monitoring event indicated an east-northeast groundwater flow direction while the measurements collected during the third quarter 2009 monitoring event indicated a northward groundwater flow direction (ETIC 2009b). ETIC calculated the groundwater gradient at the former Mobil-branded service station to be 0.0011, based on data collected during the third quarter 2009 monitoring event (ETIC 2009b). This value indicates a relatively flat groundwater surface. A copy of ETIC’s third quarter 2009 groundwater monitoring report is presented in Appendix I.

#### 6.1.2 Site-Specific Geology and Hydrogeology

During ERA’s subsurface investigations at the Site in 2015 (ERA 2015) and 2016, silt and silty clay were encountered from below the asphalt/baserock in boring SB-1 (located north of the on-site building) to the maximum depth explored of 40 feet bgs, and from below the topsoil in boring SB-5 (located east of the on-site building) to the maximum depth explored of 39 feet bgs.

Coarse-grained sediments were encountered in borings SB-2, SB-3, and SB-4, located south of the on-site building. In boring SB-2, sandy gravel was encountered from a depth of approximately 10 to 20 feet bgs; silt with gravel was present above this sandy gravel and silty clay was present beneath the sandy gravel to the maximum depth explored of 36 feet bgs. Sandy gravel was encountered in borings SB-3 and SB-4 from below the asphalt/baserock to depths of approximately 14 feet bgs and 8 feet bgs, respectively; silty clay was generally present below the sandy gravel.

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### 6.2 Surface Water Bodies

The nearest surface water body, the creek named Arroyo Del Valle, is located approximately 325 feet south of the Site across Del Valle Parkway.

### 6.3 Nearby Wells

A water well survey was conducted by ETIC in 2010 for the former Mobil-branded gasoline service station located to the northeast of the Site across Main Street at 1024 Main Street. Data collected at that time by ETIC indicated that three municipal water-supply wells owned by the City of Pleasanton (identified as 16L1, 16L5, and 16L7 on Figure 7) are located approximately 2,150 feet north of the Site; two privately owned water-supply wells (identified as 21C1 and 21C3 on Figure 7) are located approximately 410 feet south of the Site; two privately owned water-supply wells (identified as 21B2 and 21B3 on Figure 7) are located approximately 1,450 feet east-southeast of the Site; and five abandoned water-supply wells (identified as 16L10, 16L11, 16M1, 16M2, and 16M3 on Figure 7) are located more than 1,600 feet north to northeast of the Site.

Based on the available information, the nearest well is more than 400 feet south and upgradient of the Site with respect to the site location and inferred local groundwater flow direction. The nearest well located in a downgradient direction was more than 1,600 feet north to northeast from the Site.

A copy of ETIC's well survey report is included in Appendix J.

### 6.4 Constituents of Concern: Light-Non Aqueous Phase Liquids (LNAPL)

Based on the historical site use and the available soil and groundwater quality data, the primary chemicals of potential concern (COPC) at the Site are petroleum hydrocarbons, specifically TPHg, TPHd, TPHss, and naphthalene. Benzene and MTBE have not been detected in soil and groundwater samples collected from the Site.

### 6.5 Potential Sources: On-site, Off-site

As noted above in Section 3.1, a former on-site building was used as an auto repair facility from at least the late 1930s until the late 1960s with a gas and oil facility present from the late 1930s or early 1940s to the early 1950s. A small rectangular building, used as a gas and oil facility, extended onto the southern portion of the Site from the south adjacent property. The primary sources of petroleum hydrocarbons would likely be USTs and other storage containers associated with the gas and oil facilities. As previously indicated, the buildings were removed before construction of the current on-site building. No documentation on the removal of the USTs was obtained by Basics Environmental.

Secondary sources at the Site would be residual mass of petroleum hydrocarbons in soil and groundwater beneath the Site. To date, nine soil samples from five borings have been collected and analyzed for petroleum hydrocarbons. TPHd was reported in one shallow sample (SB-2-2) and TPHg was reported in one deep sample (SB-3-32). Based on the available data, the likelihood of significant residual mass of petroleum hydrocarbons in soil across accessible areas of the Site appears low. The highest concentrations of petroleum hydrocarbons in groundwater were reported in groundwater samples collected from boring SB-2 and SB-5, located south and east, respectively, of the on-site building. Based on the available data, the residual mass of petroleum hydrocarbons in groundwater appears localized to the southeastern corner of the on-site building.



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### 6.6 Nature and Extent of Environmental Impacts: Soil Vapor, Soil, and Groundwater

#### 6.6.1 Petroleum Hydrocarbon Distribution in Soil Vapor

One soil gas sample was collected from the Site to evaluate potential vapor intrusion into the on-site building. The soil gas sample was collected from a depth of approximately 5 feet below the foundation level of the on-site building at sampling location SB-3, located in the pavement area immediately south of the on-site building. Analysis of the soil gas sample revealed the presence of naphthalene at a concentration of 11  $\mu\text{g}/\text{m}^3$  and methane at 0.0009%. The concentration of naphthalene was below the ESL of 41  $\mu\text{g}/\text{m}^3$  for naphthalene in soil gas as established by the SFBRWQCB (SFBRWQCB 2016). The methane concentration was below the lower explosive limit of 5%.

#### 6.6.2 Petroleum Hydrocarbon Distribution in Soil

The site investigation results indicated the presence of petroleum hydrocarbons in soil, as follows:

- TPHd in soil sample SB-2-2 at a concentration of 16 mg/kg which is below the applicable ESL of 240 mg/kg (SFBRWQCB 2016);
- TPHg in soil sample SB-3-32 at a concentration of 0.99 mg/kg which is below the applicable ESL of 100 mg/kg (SFBRWQCB 2016);
- Naphthalene was detected in soil sample SB-5-36 at a concentration of 0.026 mg/kg which is slightly above the applicable ESL of 0.023 mg/kg (SFBRWQCB 2016);
- Ethylbenzene was detected in soil sample SB-3-32 at a concentration of 0.022 mg/kg which is below the applicable ESL of 1.4 mg/kg (SFBRWQCB 2016); and
- Total xylenes were detected in soil samples SB-3-32 and SB-5-36 at concentrations of 0.137 mg/kg and 0.022 mg/kg, respectively, which are below the applicable ESL of 2.3 mg/kg (SFBRWQCB 2016).

Petroleum hydrocarbons (TPHd at 16 mg/kg) have been detected in one shallow sample (SB-2-2). The remaining detects of petroleum hydrocarbons (TPHg at 0.99 mg/kg, naphthalene at 0.026 mg/kg, ethylbenzene at 0.022 mg/kg, and total xylenes at 0.137 mg/kg and 0.022 mg/kg) were detected in deeper soil samples (32 to 36 feet bgs) and appear to be likely related to migration of petroleum hydrocarbons in groundwater.

Benzene and MTBE have not been reported in soil samples at concentrations at or above their respective laboratory limit.

#### 6.6.3 Petroleum Hydrocarbon Distribution in Groundwater

The investigation results indicated the presence of petroleum hydrocarbons in shallow groundwater, as follows:

- TPHd detected at a concentration of 120  $\mu\text{g}/\text{L}$  in the groundwater from boring SB-1 which is slightly above the applicable ESL of 100  $\mu\text{g}/\text{L}$  (SFBRWQCB 2016);
- TPHg (at a concentration of 1,400  $\mu\text{g}/\text{L}$ ), TPHd (at a concentration of 1,000  $\mu\text{g}/\text{L}$ ), and TPHss (at a concentration of 1,400  $\mu\text{g}/\text{L}$ ) detected in the groundwater sample from boring SB-2 which are above the applicable ESLs of 100  $\mu\text{g}/\text{L}$  for each (SFBRWQCB 2016);

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- Naphthalene (at a concentration of 5.3 µg/L) detected in the groundwater sample from boring SB-2 which is above the ESL of 0.12 µg/L (SFBRWQCB 2016);
- Ethylbenzene (at a concentration of 6.1 µg/L) detected in the groundwater sample from boring SB-2 which is below the ESL of 13 µg/L (SFBRWQCB 2016);
- Total xylenes (at a concentration of 19 µg/L) detected in the groundwater sample from boring SB-2 which is below the ESL of 20 µg/L (SFBRWQCB 2016);
- Toluene (at a concentration of 0.57 µg/L) detected in the groundwater sample from boring SB-3 which is below the ESL of 40 µg/L (SFBRWQCB 2016);
- Ethylbenzene (at a concentration of 1.7 µg/L) detected in the groundwater sample from boring SB-3 which is below the ESL of 13 µg/L (SFBRWQCB 2016);
- Total xylenes (at a concentration of 6.6 µg/L) detected in the groundwater sample from boring SB-3 which is below the ESL of 20 µg/L (SFBRWQCB 2016);
- TPHg (at a concentration of 230 µg/L) and TPHss (at a concentration of 940 µg/L) detected in the groundwater sample from boring SB-5 which are above the applicable ESLs of 100 µg/L for each (SFBRWQCB 2016); naphthalene was reported in the groundwater sample from boring SB-5 at a concentration of 19 µg/L which is above the ESL of 0.12 µg/L;
- Ethylbenzene (at 2.8 µg/L) detected in groundwater sample from boring SB-5 was below the ESL of 13 µg/L; and
- Total xylenes (at 40 µg/L) detected in groundwater sample from boring SB-5 was above the ESL of 20 µg/L.

Benzene and MTBE have not been reported in groundwater samples at concentrations at or above their respective laboratory limit.

One groundwater monitoring well, designated MW-8, was installed on the western side of Main Street for the investigation at the former Mobil-branded service station (ETIC 2009b). Well MW-8 was installed approximately 120 feet north of the Site and in a downgradient direction from the Site with respect to the site location and inferred local groundwater flow direction. Well MW-8 was sampled by ETIC during three events between October 1990 and July 1993. Analysis of groundwater samples collected during the initial event in October 1990 revealed TPHg at a concentration of 900 µg/L, benzene at 3 µg/L, toluene at 5 µg/L, ethylbenzene at 7 µg/L, and xylenes at 62 µg/L. TPHd was not detected in groundwater samples collected from well MW-8 during the initial event in October 1990. Only TPHg (at 270 µg/L) and xylenes (at 1.3 µg/L) were detected in the groundwater samples collected from well MW-8 in July 1992. Petroleum hydrocarbons were not detected in the groundwater samples collected from well MW-8 in July 1993. This well was not sampled during subsequent events.

While detailed groundwater quality data over time are unavailable, the decrease in TPHd concentrations (1,000 µg/L in SB-2 to 120 µg/L in SB-1 to non-detect in MW-8) suggest the presence of a residual, local, and stable plume in groundwater beneath the Site.

### 6.7 Migration Pathways: Potential Conduits

Migration pathways related to the migration of petroleum hydrocarbons in groundwater include backfill material associated with underground utilities such as sewer lines, water lines, and



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stormwater lines. However, groundwater beneath the Site is deeper than typical underground utilities.

Based on the depth of groundwater beneath the Site of more than 30 feet, which would be at least 20 feet deeper than the bottom of typical utility trenches, migration of petroleum hydrocarbons in groundwater along utility trenches across the Site would be unlikely.

### 6.8 Potential Receptors: On-site, Off-site

To the extent that commercial use of the Site continues in the future, the ground surface will remain entirely covered with hardscape (building foundations, pavement, etc.) and landscaping areas. Hence, the potential for direct exposure to residual petroleum hydrocarbons in site soils would be limited to utility workers. The potential for short-term inhalation of vapors would be limited to utility workers and the potential for long-term inhalation of vapors would be limited to site occupants (workers in the on-site businesses).

Since the Site is served by public utilities (rather than an on-site water-supply well) and depth to groundwater is more than 30 feet bgs, direct exposure pathways to petroleum hydrocarbons in groundwater are considered incomplete.

No surface water is present on site.

The available information indicates that the petroleum hydrocarbons appear to be limited to the site boundaries. Therefore, off-site workers and residents would be unlikely to be impacted by the present of petroleum hydrocarbons migrating in groundwater from the Site.

## 7. POTENTIAL DATA GAPS

Based on a review of available data and the preliminary CSM prepared for the Site, the potential data gaps identified include the following:

- The potential source for the petroleum hydrocarbons in groundwater beneath the Site has not been identified. Collection and analysis of additional groundwater samples from the Site is proposed to address this data gap.
- The potential for vapor intrusion from residual subsurface sources has not been assessed in the area of boring SB-5. As noted in Section 4.3.3, analysis of the groundwater sample from boring SB-5 revealed the presence of naphthalene at a concentration of 19 µg/L. Lack of soil gas data from the area of boring SB-5 has been identified as a data gap. Collection and analysis of a soil gas sample from the area of boring SB-5 is proposed to address this data gap.

## 8. LOW THREAT UST CLOSURE POLICY

Closure Criteria in the Low Threat UST Closure Policy are organized as follows:

- General Criteria
- Media Specific Criteria-Groundwater
- Media Specific Criteria – Petroleum Vapor Intrusion to Indoor Air
- Media Specific Criteria – Direct Contact and Outdoor Air Exposure
- Additional Criteria

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Site-specific data obtained to date were used to address each criteria, as summarized below.

The following presents a brief summary of the results with respect to media-specific criteria as described in the LTCP.

### 8.1 GENERAL CRITERIA

The general criteria relate to the site use, presence of free product, sources, and completeness of the Site understanding. As evidenced in the data presented in the CSM, a sufficiently good understanding of site conditions, on- and offsite receptors, and site history has been established. These general criteria and a discussion of how the Site is consistent with these criteria are presented below.

#### ***The unauthorized release is located within the service area of a public water system:***

The Site is located within the following service area: *Zone 7 Water Agency*

#### ***The unauthorized release consists only of petroleum:***

The former use of the Site (927 Main Street, formerly 40 Santa Rita Road) included:

- An auto repair from at least the late 1930s until the late 1960s; and
- A gas and oil station from the late 1930s/early 1940s to the early 1950s.

The existing commercial building was reportedly constructed in 1980 and is currently occupied by Subway sandwiches and Hanadi Sushi restaurant.

The south adjacent property (917 Main Street; formerly 40A Santa Rita Road), was used as a gas and oil facility. The gas and oil building extended onto the southern portion of the Site.

Analytical data collected to date has shown no indication of contaminant releases other than petroleum (Table 2). No evidence has been obtained that indicates the Site was used for activities which would have resulted in non-petroleum releases.

#### ***The unauthorized (“primary”) release from the UST system has been stopped:***

No specific information on former operations (i.e., capacity of former USTs, type and locations of USTs, pump island locations, auto maintenance areas, and use of hazardous materials, etc.) has been obtained to date. No information regarding the removal of the USTs or associated sampling was contained within the local regulatory agency files reviewed by Basics Environmental during their Phase I ESA. However, structures including USTs would likely have been removed during site redevelopment in 1980. Additionally, as noted in Section 5.2, anomalies indicative of USTs or disturbed soil were not identified during the survey. Based on these results, no existing USTs appear to be present on or near the Site and no source for an ongoing release is apparent in the surveyed areas.

#### ***Free product has been removed to the maximum extent possible:***

No free product was noted during the site investigations.

#### ***A conceptual site model (CSM) that assesses the nature, extent, and mobility of the release has been developed:***

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The CSM prepared for the Site is summarized in Section 6. CSM elements are:

- Geology and Hydrogeology
- Surface Water Bodies
- Nearby Wells
- Constituents of Concern: Light-Non Aqueous Phase Liquids (LNAPL), TPHg, benzene, MTBE
- Potential Sources: On-site, Off-site
- Nature and Extent of Environmental Impacts: Soil Vapor, Soil, Shallow Groundwater, Deeper Groundwater
- Migration Pathways: Potential Conduits (underground utilities)
- Potential Receptors: On-site, Off-site (workers, residents, water wells, surface water)

***Secondary source has been removed to the extent practicable:***

No specific information on removal of potentially-impacted soil, quantity of excavated soil, disposal facility, etc. has been obtained to date.

***Soil and groundwater have been tested for MTBE and results reported in accordance with Health and Safety Code 25296.15:***

Soil and groundwater samples collected have been analyzed for benzene and MTBE. Benzene and MTBE have not been detected in soil and groundwater samples analyzed to date.

***Nuisance as defined by the Water Code section 13050 does not exist at this site:***

Health and Safety Code section 25296.15 prohibits closing a UST case unless the soil, groundwater, or both, as applicable have been tested for MTBE and the results of that testing are known to the Regional Water Quality Control Board. The exception to this requirement is where a regulatory agency determines that the UST that leaked has only contained diesel or jet fuel. Before closing a UST case pursuant to this policy, the requirements of section 25296.15, if applicable, shall be satisfied. *A nuisance as defined by the water code does not exist at this Site.*

## 8.2 MEDIA-SPECIFIC CRITERIA - GROUNDWATER

Groundwater data collected from the Site are utilized to evaluate media-specific criteria, specifically groundwater.

***Plume Study:*** Comparison of the groundwater analytical results to the compounds noted in Table 1 of the Technical Justification for Groundwater Media-Specific Criteria indicated the following:

- Benzene was not detected in groundwater samples at concentrations at or above the laboratory reporting limit of 0.5 µg/L; based on the lack of benzene detections in groundwater (see Table 2 and Figure 4) isoconcentration contours are not presented on Figure 4;
- MTBE was not detected in groundwater samples at concentrations at or above the laboratory reporting limits of 0.5 to 1 µg/L; based on the lack of MTBE detections in

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groundwater (see Table 2 and Figure 5) isoconcentration contours are not presented on Figure 5; and

- TPHg was detected in groundwater samples from borings SB-2 and SB-5 at concentrations of 1,400 µg/L and 230 µg/L, respectively (see Table 2 and Figure 6); the TPHg 100 µg/L isoconcentration contour is presented on Figure 6.

**Plume Length:** The length of the TPHg plume is estimated to be approximately 65 feet as measured from the source area to the plume boundary (100 µg/L isoconcentration contour) as shown on Figure 6.

**Well Survey:** A water well survey was conducted by ETIC in 2010 for the former Mobil-branded gasoline service station located to the east of the Site across Main Street at 1024 Main Street. Data collected at that time by ETIC indicated that three municipal water-supply wells owned by the City of Pleasanton (identified as 16L1, 16L5, and 16L7 on Figure 7) are located approximately 2,150 feet north of the Site; two privately owned water-supply wells (identified as 21C1 and 21C3 on Figure 7) are located approximately 410 feet south of the Site; two privately owned water-supply wells (identified as 21B2 and 21B3 on Figure 7) are located approximately 1,450 feet east-southeast of the Site; and five abandoned water-supply wells (identified as 16L10, 16L11, 16M1, 16M2, and 16M3 on Figure 7) are located more than 1,600 feet north to northeast of the Site.

**Surface Water:** The nearest surface water body, the creek named Arroyo Del Valle, is located approximately 325 feet south of the Site across Del Valle Parkway.

**Low Threat Groundwater Class:** Based on the short, stabilized plume length of less than 100 feet for TPHg and lack of benzene and MTBE in groundwater which indicates a small or depleted source and/or very high natural attenuation rate, and the lack of receptors (existing water supply well or surface water body) within 250 feet of the Site, the Site satisfies the Class 1 Groundwater Plume Class Criteria.

### 8.3 MEDIA SPECIFIC CRITERIA –VAPOR INTRUSION TO INDOOR AIR

Soil gas and soil data collected from the Site are utilized to evaluate vapor intrusion to indoor air.

**Soil:** Analysis of soil samples collected from the five on-site borings in November 2015 through August 2016 did not reveal the presence of benzene (laboratory reporting limit of 0.005 mg/kg), MTBE (laboratory reporting limits of 0.005 mg/kg to 0.020 mg/kg), or toluene (laboratory reporting limit of 0.005 mg/kg). Naphthalene (laboratory reporting limit of 0.005 mg/kg) was detected in soil sample SB-5-36 at a concentration of 0.026 mg/kg, ethylbenzene (laboratory reporting limit of 0.005 mg/kg) was detected in soil sample SB-3-32 at a concentration of 0.022 mg/kg, and xylenes (laboratory reporting limit of 0.005 mg/kg) was detected in soil samples SB-3-32 and SB-5-36 at concentrations of 0.137 mg/kg and 0.022 mg/kg, respectively. The soil samples with reported detections of naphthalene, ethylbenzene, and xylenes were collected from intervals of discolored (greenish) soil (see discussion in Section 4.2.2). Overall, weathered petroleum hydrocarbons were not present in soil samples collected from depths of less than 32 feet bgs.

**Soil Gas:** A soil gas sample was collected from a depth of approximately 5 feet below the foundation level of the on-site building at sampling location SB-3. The soil gas sample was collected from the pavement area immediately south of the on-site building. Analysis of the soil gas

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sample revealed the presence of naphthalene at a concentration of 11 µg/m<sup>3</sup> and methane at 0.0009 percent (%). The naphthalene concentration was below the ESL of 41 µg/m<sup>3</sup> for naphthalene in soil gas as established by the SFBRWQCB (SFBRWQCB 2016). The methane concentration was below the lower explosive limit of 5%.

**Petroleum Vapor Intrusion to Indoor Air:** Based on the lack of weathered petroleum hydrocarbons in shallow soil and low levels of naphthalene (below ESL) and methane (below LEL) in soil gas, petroleum vapor intrusion to indoor air does not appear to be a significant environmental or health concern at the Site.

### 8.4 MEDIA SPECIFIC CRITERIA – DIRECT CONTACT AND OUTDOOR AIR EXPOSURE

Soil data collected from the Site are utilized to evaluate vapor intrusion to indoor air.

**Soil:** During the subsurface investigations, soil samples were collected from the 0- to 5-foot depth interval and the 5- to 10-foot depth interval for petroleum hydrocarbon analysis, including benzene, ethylbenzene, and naphthalene (as presented in Table 1 of the LTCP). Table 6 below presents the limits for benzene, ethylbenzene, and naphthalene concentrations at commercial/industrial properties as noted in the LTCP.

Compound	0- to 5-foot depth interval	5- to 10-foot depth interval
Benzene	8.2	12
Ethylbenzene	89	134
Naphthalene	45	45

As noted above in Section 4.3.2, benzene was not present in soil samples collected from on-site borings at concentrations at or above its laboratory reporting limit. Ethylbenzene and naphthalene were each detected in soil samples collected from depths of 32 feet bgs or more from intervals of discolored (greenish) soil. No areas of shallow petroleum hydrocarbon-impacted soil were identified on site during the subsurface investigations. The laboratory reporting limit for benzene (0.005 mg/kg) and the concentrations of ethylbenzene (0.022 mg/kg) and naphthalene (0.026 mg/kg) were well below the limits presented above for each depth interval.

**Site Conditions/Use:** The surface across the Site is covered by the on-site building, concrete sidewalk, asphalt pavement, and landscaping areas. Currently, the Site is used for commercial purposes and there are no redevelopment plans.

**Direct Contact and Outdoor Air Exposure:** Based on the lack of petroleum hydrocarbons in shallow soil, current site conditions, and current commercial use of the Site, direct contact with soil and outdoor air exposure does not appear to be a significant environmental or health concern at the Site.

## 9. CONCLUSIONS

The results of the investigations at the Site indicated that petroleum hydrocarbons are not present in shallow soil but is present in deeper soil and groundwater. The concentrations detected in soil

## Environmental Risk Assessors

were below applicable ESLs and the limits listed in Table 1 of the LTCP while the concentrations detected in groundwater were above applicable ESLs.

The primary release from the UST system has been stopped and, based on the results of the geophysical survey and likely removal of USTs, if any, encountered during construction of the on-site building, existing USTs do not appear to be present on the Site and no source for an ongoing release is apparent in the surveyed areas. The likelihood of secondary sources (significant residual mass of petroleum hydrocarbons in soil across accessible areas of the Site) appears low, based on the available data. The highest concentrations of petroleum hydrocarbons in groundwater were reported in groundwater samples collected from boring SB-2 and SB-5, located south and east, respectively, of the on-site building. Based on the available data, the residual mass of petroleum hydrocarbons in groundwater appears localized to the southeastern corner of the on-site building.

Lack of detects in soil and groundwater samples from boring SB-4 indicates that a release does not appear to have occurred in the area of the former canopy located on the south adjoining property.

The Robo-branded car wash that was present on the south adjoining property and extended onto the Site's southwestern portion during the 1970s is a potential source for the petroleum hydrocarbons present in groundwater beneath the Site based on its upgradient location (with respect to the site location and inferred local groundwater flow direction) and proximity to the borings in which petroleum hydrocarbons were detected. However, it is unlikely that significant quantities of gasoline and diesel were stored at the car wash. The Unocal property (located approximately 90 feet east of the Site across Main Street), the City of Pleasanton Corporate Yard (located approximately 245 feet south-southeast of the Site), and the former auto sales lot (located approximately 125 feet south of the Site) are also potential sources for the petroleum hydrocarbons present in groundwater beneath the Site, based on the likely operations, proximity, upgradient location with respect to the site location and inferred local groundwater flow direction, etc.

## 10. RECOMMENDATIONS

Additional site characterization, to include collection and analysis of soil gas, soil, and groundwater samples is warranted to address data gaps identified during the site investigations. Specifically:

- Collection and analysis of additional groundwater samples from the area south and southwest of the Site is proposed to help evaluate the potential source(s) for the petroleum hydrocarbons in groundwater beneath the Site.
- Collection and analysis of a soil gas sample from the area east of the on-site building (at boring SB-5) is proposed to evaluate the potential for vapor intrusion from residual subsurface sources due to the detection of naphthalene in groundwater in this area.

## 11. LIMITATIONS

### 11.1 Limitations and Exceptions

The opinions and recommendations presented in this Report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ERA and the party for whom this report was originally prepared. This Report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is



## Environmental Risk Assessors

intended or given. To the extent that ERA relied upon any information prepared by other parties not under contract to ERA, ERA makes no representation as to the accuracy or completeness of such information.

This Report is expressly for the sole and exclusive use of the parties for which this Report was originally prepared for a particular purpose. Only the parties for which this Report was originally prepared and/or other specifically named parties, may make use of and rely upon the information in this Report. Reuse of this Report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties without proper authorization, shall be at the user's sole risk.

The findings presented in this Report apply solely to site conditions existing at the time when ERA's assessment was performed. It must be recognized, however, that a Limited Phase II ESA is conducted for the purpose of evaluating the potential for contamination through limited investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ERA's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. Therefore, 100 percent confidence in limited Phase II ESA conclusions cannot reasonably be achieved.

Nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

### 11.2 Special Terms and Conditions

The scope of work for this Limited Phase II ESA was presented in ERA's proposal dated November 2, 2015. The scope of work for this assessment did not include tasks not specifically noted in the proposal.

### 11.3 User Reliance

This Report is for the exclusive use of the parties for which it was prepared, their agents, and assignees, and for such other parties as ERA agrees may rely on the Report. Use of this Report by any other party shall be at such party's sole risk.

## 12. REFERENCES

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## TABLES

**Table 2  
Soil and Groundwater Samples Organics Analytical Summary**

**Main Street Property  
927 Main Street  
Pleasanton, California**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Petroleum Hydrocarbons <sup>2</sup> Soil: mg/kg; Groundwater: µg/L			VOCs <sup>3</sup> Soil: mg/kg; Groundwater: µg/L					
				TPHg <sup>3</sup>	TPHd <sup>3</sup>	TPHss <sup>3</sup>	Benzene	MTBE	Naphthalene	Toluene	Ethylbenzene	Xylenes
<b>ESL for Shallow Soil</b>				100	240	100	0.044	0.023	0.023	2.9	1.4	2.3
North of Former Gas Station Building	SB-1-5.5	5.0 - 5.5	Soil	<1	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-2-2	1.5 - 2.0	Soil	<1	<b>16</b>	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-3-10	9.5 - 10.0	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-3-32	31.5 - 32.0	Soil	<b>0.99</b>	<10	<10	<0.005	<0.020	<0.005	<0.005	<b>0.022</b>	<b>0.137</b>
Area of Former Southern Canopy	SB-4-3	2.5 - 3.0	Soil	<0.5	<10	<10	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Area of Former Southern Canopy	SB-4-7.5	7.0 - 7.5	Soil	<0.5	<10	<10	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-4.5	4.0 - 4.5	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-8	7.5 - 8.0	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-36	35.5 - 36.0	Soil	<0.5	<10	<10	<0.005	<0.020	<b>0.026</b>	<0.005	<0.005	<b>0.022</b>
<b>ESL for Groundwater</b>				100	100	100	1	5	0.12	40	13	20
North of Former Gas Station Building	SB-1-W	NA	Ground-water	<50	<b>120</b>	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
South of Former Gas Station Building	SB-2-W	NA	Ground-water	<b>1,400</b>	<b>1,000</b>	<b>1,400</b>	<0.5	<0.5	<b>5.3</b>	<0.5	<b>6.1</b>	<b>19</b>
South of Former Gas Station Building	SB-3-W	NA	Ground-water	<50	<50	<50	<0.5	<1	<1	<b>0.57</b>	<b>1.7</b>	<b>6.6</b>
Area of Former Southern Canopy	SB-4-W	NA	Ground-water	<50	<50	<50	<0.5	NA	<1	<0.5	<0.5	<0.5
Area of Former Northern Canopy	SB-5-W	NA	Ground-water	<b>230</b>	<50	<b>940</b>	<0.5	<1	<b>19</b>	<0.5	<b>2.8</b>	<b>40</b>

**Notes:**

Units: Soil: mg/kg = milligrams per kilogram, Groundwater: µg/L = micrograms per liter

1. bgs = below ground surface

2. TPHg, TPHd, TPHss = Total petroleum hydrocarbons (TPH) quantified as gasoline, quantified as diesel, and TPH quantified as Stoddard solvent were analyzed using U.S. EPA Method 8015B/C.

3. Volatile organic compounds (VOCs) were analyzed using U.S. EPA Method 8260B.

ESL = Environmental Screening Levels as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Tier 1 ESLs, February 2016.

SFBRWQCB Tier 1 Environmental Screening Levels (SFBRWQCB, 2016) Note 2 states: TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to TPH diesel criterion. The noted ESL was established for TPH-d.

MTBE = Methyl tert-butyl ether

NE = Not established

<1 = Not detected at stated concentration

**Bold** = Compound detected

**Bold** = Compound detected above ESL

**Table 3**  
**Soil and Groundwater Samples Inorganics Analytical Summary**  
**Main Street Property**  
**927 Main Street**  
**Pleasanton, California**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Metals (soil: mg/kg, GW: µg/L)				
				Cadmium	Chromium	Lead	Nickel	Zinc
<b>Analytes</b>								
<b>ESL for Soil</b>				0.00006	See Below	80	83	23,000
North of Former Gas Station Building	SB-1-5.5	5.0 - 5.5	Soil	<0.25	<b>260</b>	<b>10</b>	<b>240</b>	<b>60</b>
North End of Former Canopy	SB-2-2	1.5 - 2.0	Soil	<b>0.36</b>	<b>130</b>	<b>61</b>	<b>80</b>	<b>110</b>
<b>ESL for Groundwater</b>				0.25	50	2.5	8.2	81
North of Former Gas Station Building	SB-1-W	NA	Groundwater	<0.25	<b>0.63</b>	<0.5	<b>1.8</b>	<15
North End of Former Canopy	SB-2-W	NA	Groundwater	<0.25	<0.5	<0.5	<b>4.8</b>	<15

**Notes:**

Units: Soil: mg/kg = milligrams per kilogram; Groundwater: µg/L = micrograms per liter

1. bgs = below ground surface

ESL = Environmental screening levels (ESLs) for soil as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Levels (SFBRWQCB 2016), February 2016.

NA = Not Applicable

<0.25 = Not detected at stated concentration

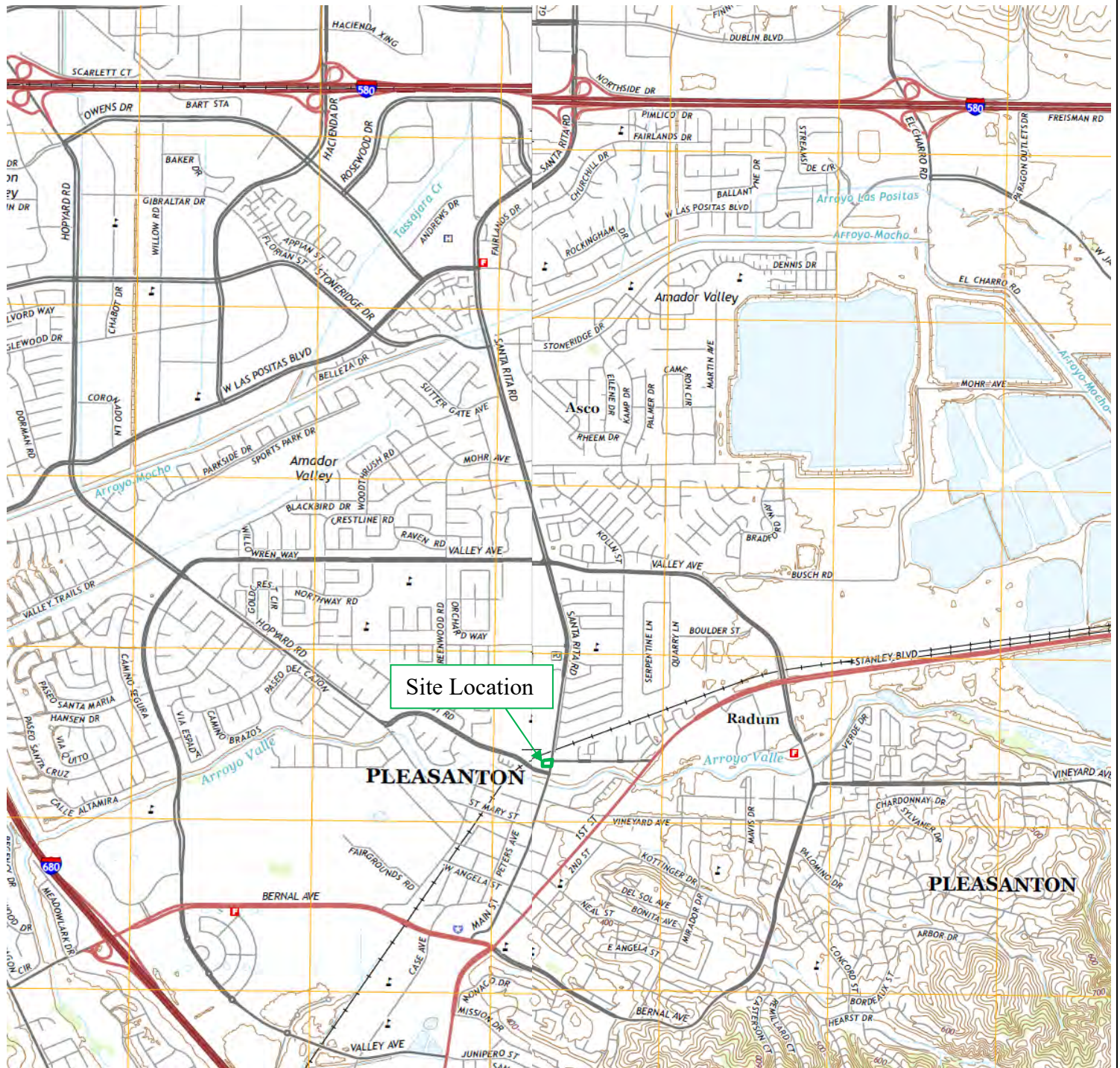
**Bold** = Compound detected

**Bold** = Compound detected above ESL

Chromium III ESL = 120,000  
Chromium VI ESL = 1.3

## FIGURES





USGS Dublin and Livermore, California Quadrangle Topographic Maps, 2015

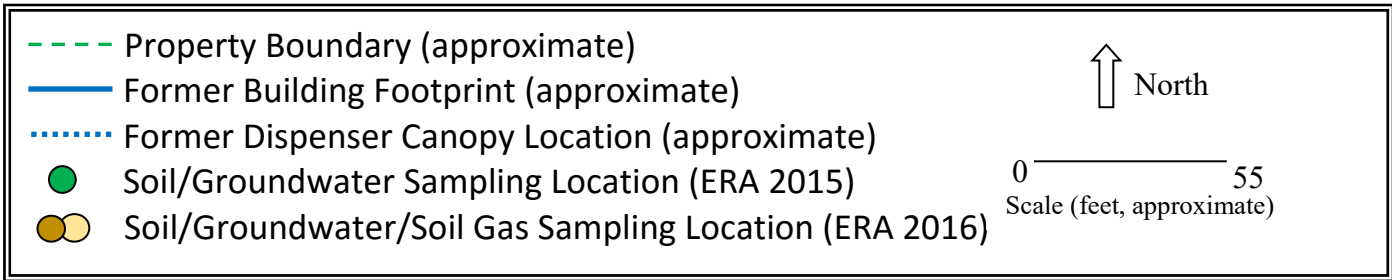
<b>Legend</b>	
<span style="color: green;">—</span>	Site (boundaries approximate)



<b>Site Location Map</b>	
<b>SOIL AND GROUNDWATER INVESTIGATION</b>	
927 Main Street, Pleasanton, California	

PN: 01-2016-1300-001
Date: October 10, 2016
EP: Lita Freeman
<b>Figure 1</b>





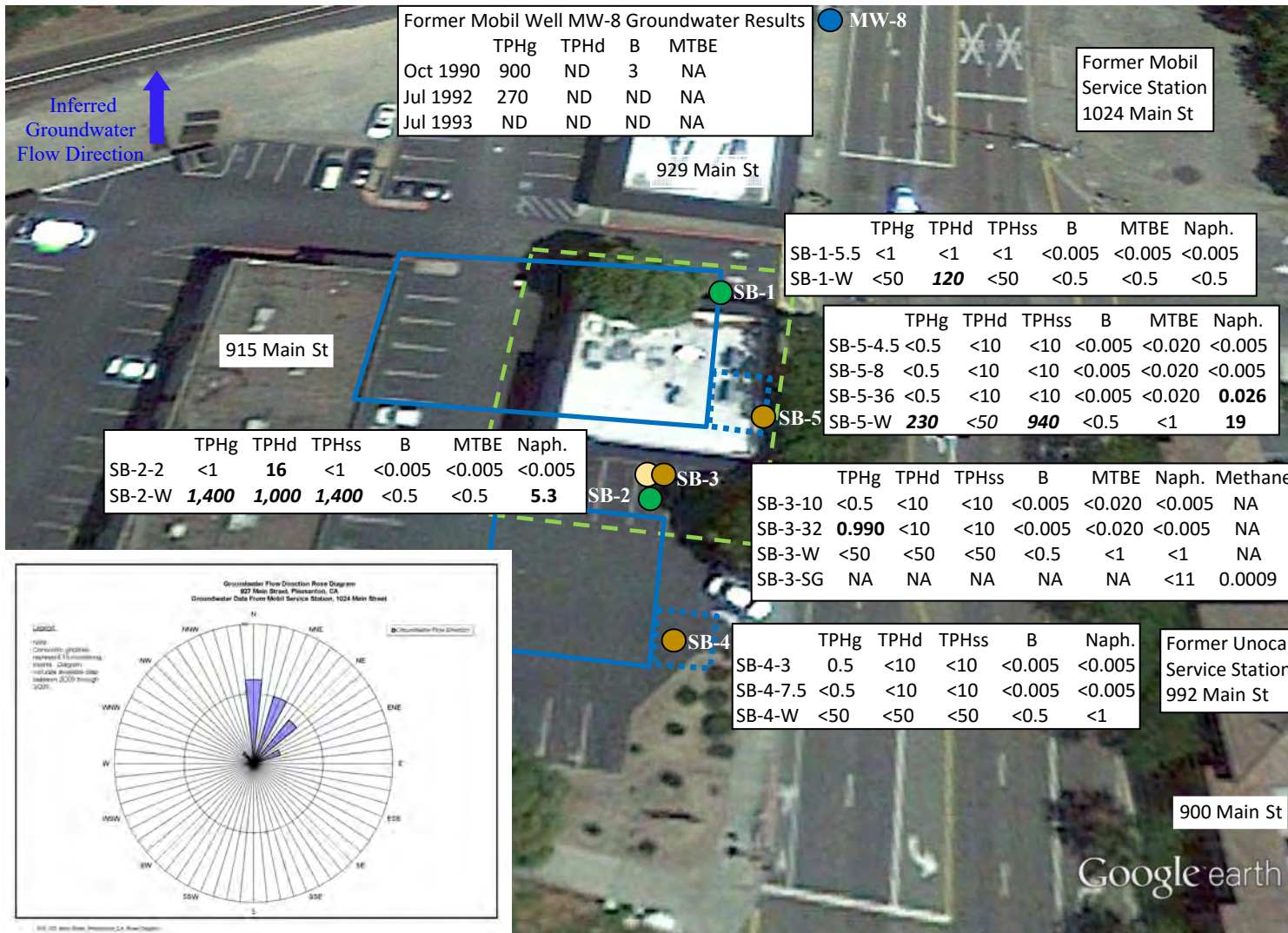
**Site Plan**

**SOIL AND GROUNDWATER INVESTIGATION**

927 Main Street, Pleasanton, California

PN: 01-2016-1300-001  
Date: October 10, 2016  
EP: Lita Freeman

**Figure 2**



TPHg = Total Petroleum Hydrocarbons quantified as gasoline

TPHd = TPH quantified as diesel

TPHss = TPH quantified as Stoddard solvent

B = Benzene

MTBE = Methyl tert-butyl ether

Naph. = Napthalene

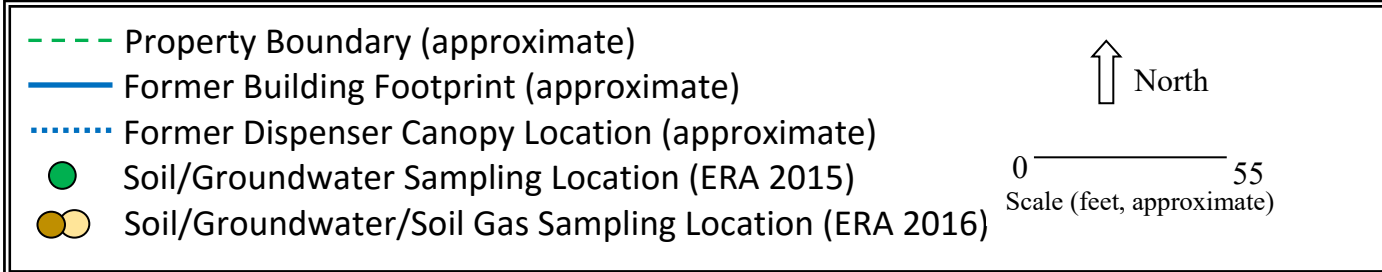
SB-1-5.5 = Soil sample from boring SB-1 at 5.0-5.5 depth interval

SB-1-W = Groundwater sample from boring SB-1

**120** = Noted analyte detected at stated concentration

<1/NA = Noted analyte not detected at concentration at or above stated laboratory reporting limit/Not Analyzed

units: Soil: mg/kg = milligrams per kilogram  
 Groundwater: µg/L = micrograms per liter  
 Soil Gas (Naph.): µg/m<sup>3</sup> = micrograms per cubic meter  
 Soil Gas (Methane): % = Percent



**Soil and Groundwater Samples Results Summary**

**SOIL AND GROUNDWATER INVESTIGATION**

927 Main Street, Pleasanton, California

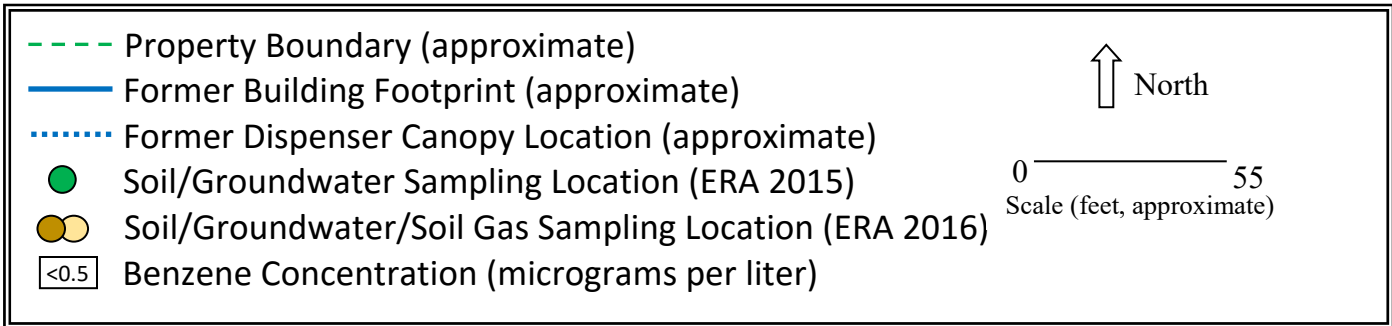
PN: 01-2016-1300-001

Date: October 10, 2016

EP: Lita Freeman

**Figure 3**





**Benzene Concentrations in Groundwater**

**SOIL AND GROUNDWATER INVESTIGATION**

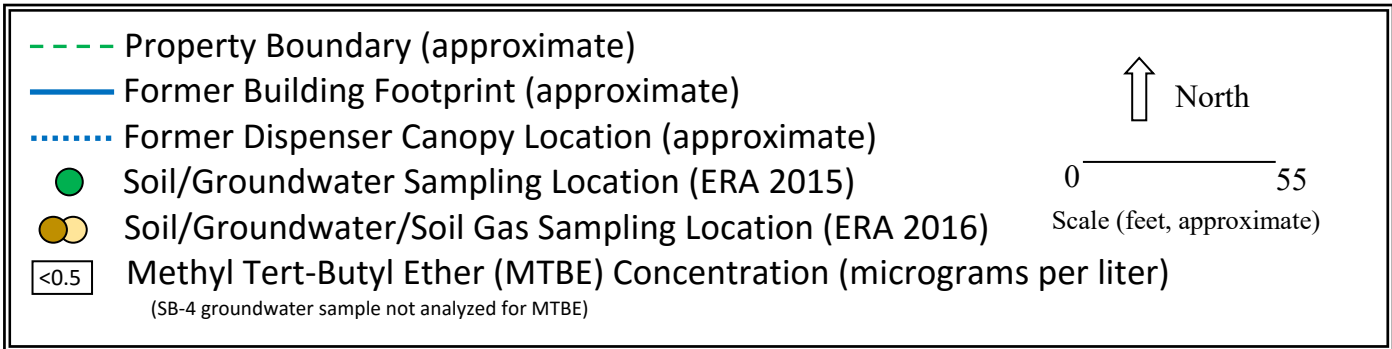
927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: October 10, 2016

EP: Lita Freeman

**Figure 4**



### MTBE Concentrations in Groundwater

SOIL AND GROUNDWATER INVESTIGATION

927 Main Street, Pleasanton, California

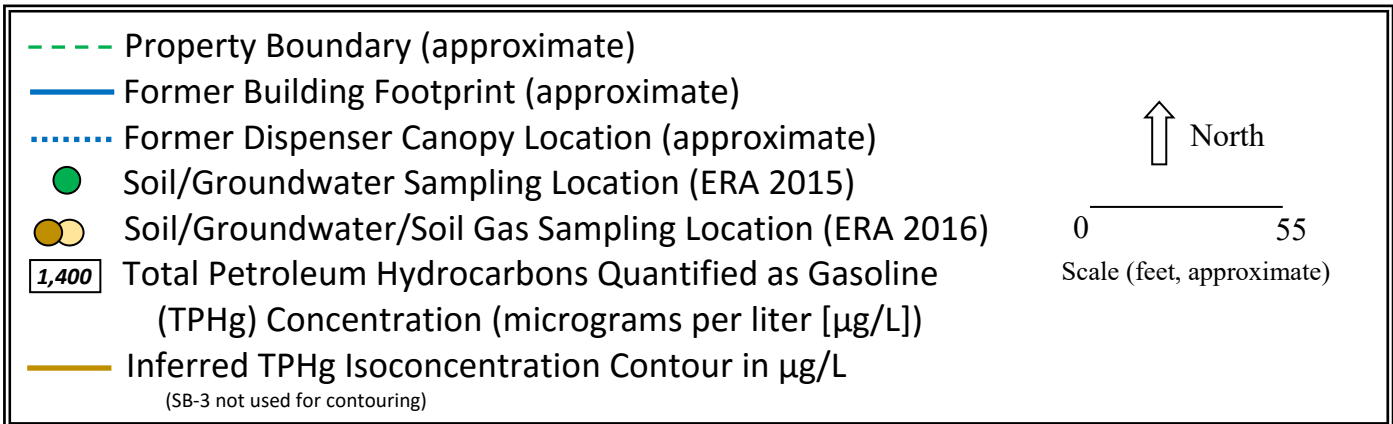
PN: 01-2016-1300-001

Date: October 10, 2016

EP: Lita Freeman

**Figure 5**





**TPHg Groundwater  
Isoconcentration Contour Map**

**SOIL AND GROUNDWATER INVESTIGATION**

927 Main Street, Pleasanton, California

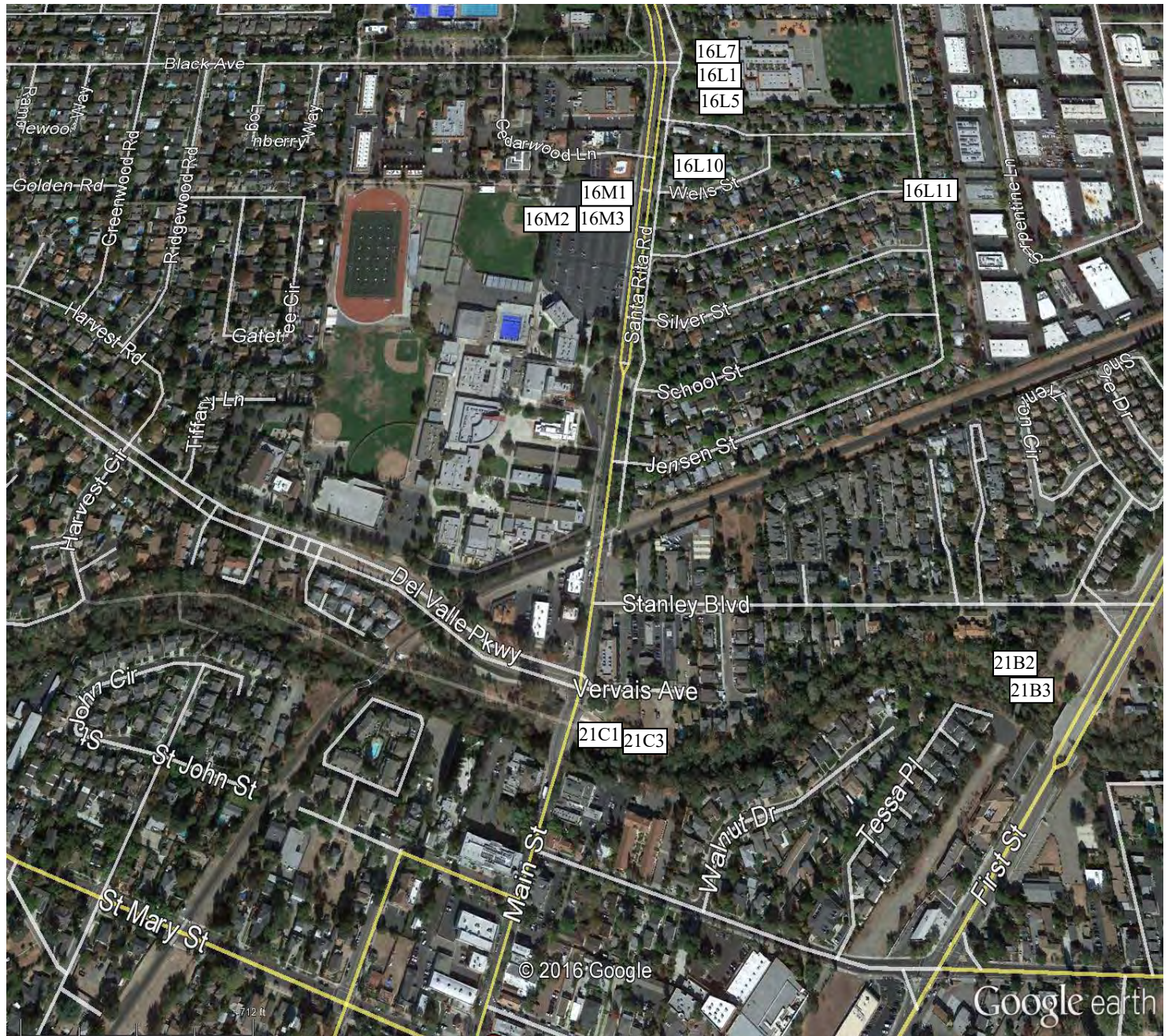
PN: 01-2016-1300-001

Date: October 10, 2016

EP: Lita Freeman

**Figure 6**





Well Location Source: ETIC, 2010, Detailed Well Survey Report



### Well Survey Results

#### SOIL AND GROUNDWATER INVESTIGATION

927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: October 10, 2016

EP: Lita Freeman

**Figure 7**

**Appendix A**

Alameda County Department of  
Environmental Health Email Dated August 25, 2016





Lita Freeman <litafreeman@gmail.com>

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## Fuel Leak Case No. RO0003199, 927 Main Street, Pleasanton

1 message

---

**Jurek, Anne, Env. Health** <Anne.Jurek@acgov.org> Thu, Aug 25, 2016 at 1:10 PM  
To: Bradley Hirst <brad@equityenterprises.net>, Darrick Sun <dsun@dsunlaw.com>  
Cc: Lita Freeman <litafreeman@gmail.com>, "Roe, Dilan, Env. Health" <Dilan.Roe@acgov.org>

Dear Brad and Darrick:

Alameda County Department of Environmental Health (ACDEH) is sending this email as a follow-up to our meeting/teleconference today at the our office. During the meeting, we discussed the analytical results of the soil, groundwater, and soil gas investigation that was performed during July 2016 for the above referenced fuel leak case. This investigation was based on a revision of a work plan entitled "Supplemental Site Investigation Work Plan," dated March 31, 2016, which was performed on your behalf by Environmental Risk Assessors. The revision of this work plan was discussed and conditionally approved during a meeting held at ACDEH's office on 6/29/2016.

The results of sampling for the July 2016 investigation showed Total Petroleum Hydrocarbons as gasoline (TPHg), Total Petroleum Hydrocarbons as diesel (TPH-d), Total Petroleum Hydrocarbons as Stoddard Solvent (TPH-ss), and naphthalene in groundwater up to 230 micrograms per liter ( $\mu\text{g/L}$ ), 120  $\mu\text{g/L}$ , 940  $\mu\text{g/L}$ , and 19  $\mu\text{g/L}$ , respectively. In addition, a past investigation performed in 2015 showed elevated TPHg, TPHd, TPHss, and naphthalene up to 1,400  $\mu\text{g/L}$ , 1,000  $\mu\text{g/L}$ , 1,400  $\mu\text{g/L}$ , and 5.3  $\mu\text{g/L}$ , respectively.

As discussed during the meeting, groundwater results suggest the possibility of an on-site and/or an off-site source. Although an on-site source cannot be ruled out at this time, it is possible given the distribution of the contaminant as well as the north to northeast direction of groundwater flow that the source is off-site.

Before requesting the advancement of any further borings, ACDEH requests the following work to help determine whether or not the source is on-site and/or off-site in order to guide us in moving this case forward:

1. Research using available resources (e.g. GeoTracker data, Sanborn maps, aerial photos, and other historic documents) to determine whether or not any historic tanks or fuel leaks existed or occurred west to southwest of the site that could serve as a potential off-site source.
2. Perform a magnetometer survey across the site (parcel numbers 946-3370-22 and 946-3370-19) to determine whether or not there are buried underground storage tanks (USTs) or other at the site.
3. Determine the groundwater flow gradient using resources such as GeoTracker data.

We request that the above work be performed and the results be submitted via email to ACDEH by October 14, 2016, after which we will schedule a meeting to discuss the results and any further work that should be performed in order to move the case forward.

Please submit the complete report of the soil, groundwater, and soil gas investigation that was discussed during today's meeting by uploading onto both ACDEH's FTP and the State Water Resource Control Board's GeoTracker website according to the following schedule and file-naming convention:

September 23, 2016: Soil and Groundwater Investigation Report

SWI\_R\_yyyy-mm-dd\_RO3199

In addition, please upload all other data related to this case, including borehole logs, site map, and analytical data (EDF format) onto State Water Board's GeoTracker website. This data is being requested pursuant to California Code of Regulations, Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3890 to 3895. Details of the submission requirements are discussed in the attachment.

Please contact me if you have any questions.

Sincerely,

**Anne Jurek, M.S.**

*Professional Technical Specialist II (Geology)*

Alameda County Department of Environmental Health (ACDEH)

1131 Harbor Bay Pkwy

Alameda, CA 94502

(510) 567-6721; Ext. 36721

[anne.jurek@acgov.org](mailto:anne.jurek@acgov.org)



**FTP and GeoTracker requirements.pdf**

69K

**Appendix B**

ERA's Limited Phase II ESA Report

Dated November 27, 2015



Environmental Risk Assessors

## Limited Phase II Environmental Site Assessment Report

Main Street Property  
927 Main Street  
Pleasanton, California 94566

November 27, 2015

Prepared for:  
Basics Environmental, Inc.  
655 12<sup>th</sup> Street, Suite 126  
Oakland, CA 94607

Prepared by:  
Environmental Risk Assessors  
1420 East Roseville Parkway  
#140-262  
Roseville, CA 95661

ERA Project No. 01-2015-500-007







## Environmental Risk Assessors

November 27, 2015

Mr. Donovan Tom  
Basics Environmental, Inc.  
655 12<sup>th</sup> Street, Suite 126  
Oakland, CA 94607

**SUBJECT:** Limited Phase II Environmental Site Assessment  
Main Street Property  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2015-500-007

Dear Mr. Tom,

Environmental Risk Assessors (ERA) is pleased to present this Limited Phase II Environmental Site Assessment (ESA) Report for the above-referenced property (the Site). Our scope of work and findings are presented in the attached report.

It has been a pleasure working with you on this project. Please do not hesitate to contact me at (916) 677-9897 and via email at [litafreeman@gmail.com](mailto:litafreeman@gmail.com) if you have any questions or comments regarding this assessment.

Sincerely,

Environmental Risk Assessors

Lita D. Freeman, PG  
Professional Geologist

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# Environmental Risk Assessors

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## 1. EXECUTIVE SUMMARY

Environmental Risk Assessors (ERA) is pleased to present this Limited Phase II Environmental Site Assessment (ESA) Report (the "Report") for the property located at 927 Main Street, Pleasanton, Alameda County, California (the "Site"; Figure 1) to Basics Environmental, Inc. (Basics Environmental). The Site is currently developed with one commercial building occupied by two restaurants (Figure 2).

### 1.1 Background

The Site is developed with one building occupied by a Subway sandwich shop and a Hanadi Sushi restaurant. According to information obtained by Basics Environmental, the Site was occupied by an auto repair shop from at least the late 1930s until the late 1960s. In addition, a gasoline service station was located on site from the late 1930s until at least the early 1940s/early 1950s. No specific information on former operations (i.e., capacity of former underground storage tanks [USTs], type and locations of USTs, pump island locations, auto maintenance areas, and use of hazardous materials, etc.) was obtained by Basics Environmental from the local regulatory agency files reviewed during the Phase I ESA. In addition, no information regarding the removal of the USTs or associated sampling was contained within the local regulatory agency files reviewed by Basics Environmental. The approximate footprints of the former gasoline service station building and the canopy over the fuel dispensers are shown on Figure 2.

According to information obtained by Basics Environmental from subsurface investigation reports for the Unocal Service Station located at 1024 Main Street (approximately 150 feet northeast of the Site), the depths to water in the groundwater monitoring wells installed at this service station vary depending on the screen intervals of the wells. In the clay/silt unit, the depth to water can vary but the depth to water in the sand/gravel unit is approximately 37 to 44 feet below ground surface (bgs). Depth-to-water measurements obtained from wells screened in the sand/gravel unit during the February 2009 groundwater monitoring event indicated that groundwater flow direction was to the east-northeast.

### 1.2 Investigation

The objective of the limited Phase II ESA was to evaluate current subsurface conditions in select on-site areas. To meet this objective, soil and groundwater samples were collected from sampling locations for analysis with comparison of the analytical results to established screening levels. The investigation consisted of the following:

- Advancing borings at two sampling locations as shown on the Site Plan, Figure 2: boring SB-1 was advanced to a depth of 40 feet bgs immediately north of the building and boring SB-2 was advanced to a depth of 36 feet bgs immediately south of the building;
- Collecting soil samples from each boring;
- Collecting groundwater samples from each boring;
- Submitting soil and groundwater samples for total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg), TPH quantified as diesel (TPHd), and TPH quantified as Stoddard solvent (TPHss); volatile organic compounds (VOCs); and Leaking Underground Fuel Tank (LUFT) Manual 5 metals (cadmium, chromium, lead, nickel, and zinc) analysis; and
- Preparing this report presenting the results of the Limited Phase II ESA.

### 1.3 Findings

Petroleum hydrocarbons were not detected in the two soil samples analyzed with the exception of TPHd detected in sample SB-2-2. The concentration of TPHd (16 milligrams per kilogram [mg/kg]) in sample SB-2-2 was below the ESL (110 mg/kg) for soil at commercial/industrial land use (SFBRWQCB 2013a).

Petroleum hydrocarbons were detected in the groundwater sample from each boring: TPHd was reported in sample SB-1-W at a concentration of 120 micrograms per liter ( $\mu\text{g/L}$ ), and TPHg (1,400  $\mu\text{g/L}$ ), TPHd (1,000  $\mu\text{g/L}$ ), and TPHss (1,400  $\mu\text{g/L}$ ) were reported in the groundwater sample SB-2-W. These concentrations are above the Environmental Screening Level (ESL) of 100  $\mu\text{g/L}$  for each petroleum hydrocarbon as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board for groundwater that is a current or potential drinking water resource (SFBRWQCB 2013b).

VOCs were not detected in either soil sample at concentrations at or above their respective laboratory reporting limit and were not detected in either groundwater sample at concentrations above the applicable ESLs (SFBRWQCB 2013b). The VOC chloroform was detected in both groundwater samples; however, this compound may be a laboratory contaminant as it is commonly used in analytical laboratories.

Various metals were detected in soil and groundwater samples. Nickel was detected in soil sample SB-1-5.5 at a concentration of 240 mg/kg which is above the ESL of 150 mg/kg. However, this concentration is within natural background levels of up to 272 mg/kg for nickel in the site vicinity (Lawrence Berkeley National Laboratory 2009). The reported concentrations of the remaining metals were below their respective laboratory reporting limit or were below the applicable ESLs (SFBRWQCB 2013a).

### 1.4 Conclusions

The results of this Limited Phase II ESA indicated that petroleum hydrocarbons are present in soil and groundwater samples collected from the Site. The concentrations detected in soil were below applicable ESLs while the concentrations detected in groundwater were above applicable ESLs.

### 1.5 Recommendations

The detection of petroleum hydrocarbons in soil and groundwater samples indicates that a release has occurred on site with reported concentrations in groundwater above applicable ESLs. In accordance with the requirements of the permit issued by Zone 7 Water Agency (Zone 7), a copy of this report must be submitted to Zone 7.

## 2. INTRODUCTION

ERA is pleased to present this Limited Phase II ESA Report for the property located at 927 Main Street, Pleasanton, Alameda County, California (Figure 1) to Basics Environmental. The Site is currently developed with one commercial building occupied by restaurants (Figure 2).

The findings and conclusions presented in this Report are based on the results of a limited assessment that included collecting and analyzing soil and groundwater samples from the Site and evaluating the data obtained during the field investigation and provided by the analytical laboratory.

**2.1 Site Description**

Basics Environmental requested that ERA conduct a limited Phase II ESA of the Site to facilitate their evaluation of the Site and current subsurface conditions. Site-specific information is presented in Table 1.

<b>Table 1. General Site Information</b>	
<b>Project Name:</b> Main Street Property	<b>Current Development:</b> One commercial building occupied by two restaurants
<b>Address:</b> 927 Main Street Pleasanton, Alameda County	<b>Occupants:</b> Subway and Hanadi Sushi
<b>Location:</b> Western side of Main Street	

**2.2 Background**

The Site consists of one parcel of land identified by the Alameda County Assessor’s office as Assessor Parcel Number (APN) 946-3370-22.

The Site is developed with one building occupied by a Subway sandwich shop and a Hanadi Sushi restaurant. According to information obtained by Basics Environmental, the Site was occupied by an auto repair shop from at least the late 1930s until the late 1960s. In addition, a gasoline service station was located on site from the late 1930s until at least the early 1940s/early 1950s. No specific information on former operations (i.e., capacity of former USTs, type and locations of USTs, pump island locations, auto maintenance areas, and use of hazardous materials, etc.) was obtained by Basics Environmental from the local regulatory agency files reviewed during the Phase I ESA. In addition, no information regarding the removal of the USTs or associated sampling was contained within the local regulatory agency files reviewed by Basics Environmental. The approximate footprints of the former gasoline service station building and the canopy over the fuel dispensers are shown on Figure 2.

According to information obtained by Basics Environmental from subsurface investigation reports for the Unocal Service Station located at 1024 Main Street (approximately 150 feet northeast of the Site), the depths to water in the groundwater monitoring wells installed at this service station vary depending on the screen intervals of the wells. In the clay/silt unit, the depth to water can vary but the depth to water in the sand/gravel unit is approximately 37 to 44 feet bgs. Depth-to-water measurements obtained from wells screened in the sand/gravel unit during the February 2009 groundwater monitoring event indicated that groundwater flow direction was to the east-northeast.

**2.3 Objectives and Scope of Work**

The objective of the limited Phase II ESA was to evaluate current subsurface conditions in select on-site areas. To meet this objective, soil and groundwater samples were collected from sampling locations for analysis with comparison of the analytical results to established screening levels.

The investigation consisted of the following:

- Advancing borings at two sampling locations as shown on the Site Plan, Figure 2: boring SB-1 was advanced to a depth of 40 feet bgs immediately north of the building and boring SB-2 was advanced to a depth of 36 feet bgs immediately south of the building;
- Collecting soil samples from each boring;

- Collecting groundwater samples from each boring;
- Submitting soil and groundwater samples for TPHg, TPHd, and TPHss; VOCs; and LUFT Manual 5 metals (cadmium, chromium, lead, nickel, and zinc) analysis; and
- Preparing this report presenting the results of the Limited Phase II ESA.

## 2.4 Limitations and Exceptions

The opinions and recommendations presented in this Report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ERA and the party for whom this report was originally prepared. This Report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that ERA relied upon any information prepared by other parties not under contract to ERA, ERA makes no representation as to the accuracy or completeness of such information.

This Report is expressly for the sole and exclusive use of the parties for which this Report was originally prepared for a particular purpose. Only the parties for which this Report was originally prepared and/or other specifically named parties, may make use of and rely upon the information in this Report. Reuse of this Report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties without proper authorization, shall be at the user's sole risk.

The findings presented in this Report apply solely to site conditions existing at the time when ERA's assessment was performed. It must be recognized, however, that a Limited Phase II ESA is conducted for the purpose of evaluating the potential for contamination through limited investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ERA's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. Therefore, 100 percent confidence in limited Phase II ESA conclusions cannot reasonably be achieved.

Nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

## 2.5 Special Terms and Conditions

The scope of work for this Limited Phase II ESA was presented in ERA's proposal dated November 2, 2015. The scope of work for this assessment did not include tasks not specifically noted in the proposal.

## 2.6 User Reliance

This Report is for the exclusive use of the parties for which it was prepared, their agents, and assignees, and for such other parties as ERA agrees may rely on the Report. Use of this Report by any other party shall be at such party's sole risk.

## 2.7 Qualifications

A summary of the ERA personnel who worked on this project follows:

- Ms. Lita Freeman, California Professional Geologist and California Asbestos Consultant, has over 25 years of experience providing site assessment services. This has included



evaluating potential property impacts from historical on- and off-site operations, conducting subsurface investigations, and implementing site remediation plans. Ms. Freeman works with property owners, attorneys, and regulators to mitigate and resolve environmental issues.

### 3. FIELD INVESTIGATION

This Limited Phase II ESA was conducted to evaluate current conditions by collecting soil and groundwater samples from select on-site locations for analysis with comparison of the analytical results to established screening levels. The scope of work and results of this Limited Phase II ESA are presented below.

Photographs of the Site and site investigation are included in Appendix A.

#### 3.1 Pre-Field Activities

Before field activities associated with the proposed assessment were conducted, the pre-field tasks described below were completed.

##### 3.1.1 Health and Safety

ERA prepared a site-specific *Health and Safety Plan* for the scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by ERA personnel and subcontractors performing work at the Site.

##### 3.1.2 Permitting

ERA obtained soil boring permits from Zone 7 prior to commencing intrusive field activities. ERA coordinated field activities with the Zone 7 and scheduled a Zone 7 inspector to document compliance with permit requirements. A copy of the approved permit is presented in Appendix B.

#### 3.2 Field Activities

##### 3.2.1 Utility Clearance

Before subsurface work was conducted at the Site, the soil boring locations were cleared for underground utilities by notifying Underground Services Alert North (USA North) at least 48 hours prior to intrusive field activities. In addition, Cruz Brothers, a private utility locating contractor, cleared each proposed sampling location prior to intrusive field activities. Proposed sampling locations were adjusted, as necessary, to maintain a distance of at least 3 feet from identified underground utilities/structures.

##### 3.2.2 Drilling and Sampling

On November 13, 2015, ERA personnel provided oversight of a field crew from Cascade Drilling, L.P. (Cascade) of Richmond, California, a California licensed driller, during advancement of the borings using a Geoprobe direct-push drilling rig. A total of two soil borings (SB-1 and SB-2) were advanced at select on-site locations to collect soil and groundwater samples (Figure 2). The boring locations were selected based on available historical information and site observations, as follows:

- Boring SB-1 was placed immediately north of the on-site building and was drilled to a depth of 40 feet bgs;

- Boring SB-2 was placed immediately south of the on-site building and was drilled to a depth of 36 feet bgs.

The sampling program consisted of collecting soil and groundwater samples from each boring.

Down-hole drilling and sampling equipment was washed in a tri-sodium phosphate solution following the completion of sample collection activities for each soil boring.

Soil sampling was conducted during drilling using new acetate sleeves. Soil samples were screened in the field with a photoionization detector (PID) and observed for evidence of chemical staining. The soil screening procedures involved measuring approximately 30 grams of soil from a relatively undisturbed soil sample and placing this sample in a sealed zip-lock bag. The container was warmed in the sun for approximately 20 minutes, then the head space within the bag was tested for total organic vapor, measured in parts per million volume (ppmv). Elevated (above background) PID measurements were noted during sampling with the highest PID reading (376 ppmv) in soil from boring SB-2 at a depth of 30 feet bgs. Evidence of impacted soil (i.e., staining, odors, sheen, etc.) was noted during sampling: green-colored soil with a petroleum hydrocarbon odor was noted in boring SB-2 from a depth of 30 feet bgs to 34 feet bgs. The PID results were recorded on the field boring logs which are included in Appendix C.

Boring SB-1, located north of the on-site building, appeared to be advanced within native soil, while Boring SB-2, located south of the on-site building, appeared to be advanced within fill material (silty clay with gravel and sandy gravel) that extended from a depth of approximately 1 foot bgs (below the asphalt pavement and baserock) to a depth of approximately 20 feet bgs. Silty clay was present from a depth of approximately 20 feet bgs to the maximum depth explored of 36 feet bgs in boring SB-2, as noted above. Based on Basic Environmental's review of historical maps, the USTs associated with the former on-site gasoline service station may have been located in this area.

### 3.2.2.1 Soil Sampling

A track-mounted direct-push unit was used to drive a steel probe lined with acetate tubes into the ground to the desired depth. The soil samples were retained in the acetate tubes, capped with Teflon squares and plastic end caps, labeled with the boring identification number and the bottom depth (e.g., 2 feet bgs) of the sampling interval, and sealed in zip-lock bags.

The soil samples were placed on ice and transported under chain-of-custody protocols to McCampbell Analytical, Inc. (McCampbell Analytical) of Pittsburg, California, the project laboratory, by a laboratory-provided courier.

### 3.2.2.2 Groundwater Sampling

New polyvinyl chloride (PVC) casing (with slotted casing in the lower 10 feet and blank casing from above the slotted casing to the ground surface) was placed in each boring. Groundwater was allowed to flow into the casing at each location for approximately one hour. Groundwater was not purged prior to sampling because of the anticipated limited quantity of water in each boring. Groundwater samples were collected in laboratory-provided containers appropriate for the requested analysis.

The groundwater samples containers were labeled with the boring identification number, placed on ice, and transported under chain-of-custody protocols to the project laboratory by a laboratory-provided courier.

### 3.2.3 Borehole Abandonment and Investigation-Derived Waste Handling

After the sampling activities were complete, each boring was backfilled with cement grout and bentonite in accordance with the Zone 7 permit requirements and the Zone 7 inspector's directions.

Investigation-derived waste (IDW), which was limited to soil cuttings, produced during sampling activities were containerized in one 55-gallon container and left on the Site pending receipt of analytical results. Appropriate off-site disposal options will be presented to the client after evaluation of the analytical results.

## 4. ANALYSIS, RESULTS, AND EVALUATION

The soil and groundwater samples were submitted to McCampbell Analytical, a laboratory certified by the State of California to perform the requested analyses. The analytical methods, results, and evaluation of this Limited Phase II ESA are presented below. Copies of the laboratory analytical report and chain-of-custody documentation are presented in Appendix D.

### 4.1 Soil Analysis and Results

The soil samples collected from borings SB-1 (5.0 to 5.5 feet depth interval) and SB-2 (1.5 to 2 feet depth interval) were submitted for analyses as follows:

- TPHg, TPHd, and TPHss using U.S. Environmental Protection Agency (U.S. EPA) SW8015B without silica gel cleanup;
- VOCs using U.S. EPA Method 8260B; and
- LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc).

Petroleum hydrocarbons were not detected in the soil samples at concentrations at or above their respective laboratory reporting limit with the exception of TPHd. TPHd was reported in sample SB-2-2 at a concentration of 16 mg/kg (see Table 2).

VOCs were not detected in the soil samples at concentrations at or above their respective laboratory reporting limit (see McCampbell Analytical report in Appendix D).

Cadmium, chromium, lead, nickel, and/or zinc were detected in each of the two soil samples (Table 3). Cadmium was detected in sample SB-2-2 at a concentration of 0.36 mg/kg. The remaining metals were detected in both samples at the following maximum concentrations: chromium (up to 260 mg/kg), lead (up to 61 mg/kg), nickel (up to 240 mg/kg), and zinc (up to 110 mg/kg).

The analytical results for the compounds detected in the soil samples are presented in Tables 2 and 3 and discussed below in Section 4.3.

### 4.2 Groundwater Analysis and Results

The groundwater samples were submitted for analyses as follows:

- TPHg, TPHd, and TPHss using U.S. EPA SW8015B without silica gel cleanup;
- VOCs using U.S. EPA Method 8260B; and
- LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc).

Petroleum hydrocarbons were not detected in the groundwater sample (SB-1-W) from boring SB-1 at concentrations at or above their respective laboratory reporting limit with the exception of

TPHd detected at a concentration of 120 µg/L. TPHg (at a concentration of 1,400 µg/L), TPHd (at a concentration of 1,000 µg/L), and TPHss (at a concentration of 1,400 µg/L) were reported in the groundwater sample (SB-2-W) from boring SB-2 (Table 2).

The VOCs bromodichloromethane and chloroform were detected in the groundwater sample (SB-1-W) from boring SB-1. Various VOCs, including ethylbenzene and xylenes, were detected in the groundwater sample (SB-2-W) from boring SB-2 at concentrations (Table 2). This compound may be a laboratory contaminant as it is commonly used in analytical laboratories.

Groundwater samples were collected in unpreserved containers and filtered at the laboratory prior to metals analysis. Cadmium, lead, and zinc were not detected in the two groundwater samples (Table 3). Chromium was detected in sample SB-1-W at a concentration of 0.63 µg/L and nickel was detected in samples SB-1-W and SB-2-W at concentrations of 1.8 µg/L and 4.8 µg/L, respectively.

The analytical results for the compounds detected in the groundwater samples are presented in Tables 2 and 3 and discussed below in Section 4.3.

### 4.3 EVALUATION

The concentrations of compounds of concern detected in soil samples were compared to ESLs for shallow soil in area of commercial/industrial land use where groundwater is a current or potential drinking water resource as established by the SFBRWQCB (SFBRWQCB 2013a).

The concentrations of compounds of concern detected in groundwater samples were compared to the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB 2013b).

#### 4.3.1 Soil Results Evaluation

Comparison of the analytical results to the ESLs for soil at commercial/industrial land use (SFBRWQCB 2013a) indicate that the concentrations of detected compounds (petroleum hydrocarbons, VOCs, and metals) were below their respective ESLs with the exception of nickel in sample SB-1-5.5 (Tables 2 and 3).

Nickel was detected in sample SB-1-5.5 at a concentration of 240 mg/kg which is above the ESL of 150 mg/kg (Table 3). Regional background levels for nickel have been reported at 55 mg/kg (Shacklette and Boerngen 1984) with the 95<sup>th</sup> and 99<sup>th</sup> percentile estimates established as 164 mg/kg and 272 mg/kg, respectively, during a Lawrence Berkeley National Laboratory study (Lawrence Berkeley National Laboratory 2009).

As noted above in Section 3.2.2, native soil was observed in boring SB-1 from below the asphalt and baserock to the total depth of this boring, while what appeared to be fill material was observed in boring SB-2 from below the asphalt and baserock to a depth of approximately 20 feet bgs. The differences in chromium, lead, nickel, and zinc concentrations between soil sample SB-1-5.5 and SB-2-2 would likely be related to the composition of native soil versus fill material.

#### 4.3.2 Groundwater Results Evaluation

Comparison of the analytical results to the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB 2013b) indicated that the concentrations of TPHd (120 µg/L) in the groundwater sample SB-1-W and TPHg (1,400 µg/L), TPHd (1,000 µg/L), and

TPHss (1,400 µg/L) in the groundwater sample SB-2-W were above the ESL of 100 µg/L for each of these compounds (Table 2).

The VOC concentrations detected in both groundwater samples were below the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB 2013b), as shown in Table 2.

Comparison of the analytical results for metals to the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB 2013b) indicated that the metals concentrations reported for samples SB-1-W and SB-2-W were below their respective ESLs (Table 3).

## 5. CONCLUSIONS

The results of this Limited Phase II ESA indicate that petroleum hydrocarbons, various metals, and VOCs, are present in soil and groundwater samples collected from the Site.

Review of the analytical results indicated the following compounds were not detected in the noted samples at concentrations at or above their respective laboratory reporting limits:

- petroleum hydrocarbons in soil sample SB-1-5.5;
- TPHg and TPHss in soil sample SB-2-2;
- TPHg and TPHss in groundwater sample SB-1-W;
- VOCs in soil samples from both borings;
- Cadmium in soil sample SB-1-5.5;
- Cadmium, lead, and zinc in groundwater samples SB-1-W and SB-2-W; and
- Chromium in groundwater sample SB-2-W.

Review of the analytical results indicated the following compounds were detected in the noted samples at concentrations below applicable ESLs:

- TPHd detected in soil sample SB-2-2;
- VOCs in groundwater samples from both borings (chloroform reported in the groundwater samples may be a laboratory contaminant as it is commonly used in analytical laboratories);
- cadmium in soil sample SB-2-2;
- chromium, lead, and zinc in soil samples from both borings;
- nickel in soil sample SB-2-2;
- chromium and nickel in groundwater sample SB-1-W; and
- nickel in groundwater sample SB-2-W.

Nickel was detected in soil sample SB-1-5.5 at a concentration of 240 mg/kg, which is above the ESL of 150 mg/kg. However, this concentration is within natural background levels of up to 272 mg/kg for nickel in the site vicinity (Lawrence Berkeley National Laboratory 2009).

The concentrations of TPHd (120 µg/L) in groundwater sample SB-1-W and TPHg (1,400 µg/L), TPHd (1,000 µg/L), and TPHss (1,400 µg/L) in groundwater sample SB-2-W were above the ESL of 100 µg/L for each of these compounds.

### 6. RECOMMENDATIONS

The detection of petroleum hydrocarbons in soil and groundwater samples indicates that a release has occurred on site with reported concentrations above applicable ESLs in groundwater. In accordance with the requirements of the permit issued by Zone 7, a copy of this report must be submitted to Zone 7.

### 7. REFERENCES

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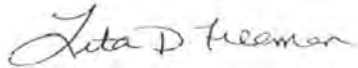
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SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Report Prepared By:



November 27, 2015

Lita D. Freeman, P.G.  
Principal Geologist  
California Professional Geologist No. 7368

Date

\* A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.



## TABLES

**Table 2**  
**Soil and Groundwater Samples Organics Analytical Summary**  
**Main Street Property**  
**927 Main Street**  
**Pleasanton, California**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Petroleum Hydrocarbons <sup>2</sup>			VOCs <sup>3</sup>										
				TPHg <sup>3</sup>	TPHd <sup>3</sup>	TPHss <sup>3</sup>	Bromochloro- methane	n-Butyl benzene	sec-Butyl benzene	Chloroform	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Propyl benzene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Xylenes
<b>ESL for Shallow Soil</b>				500	110	500	1.5	NE	NE	2.4	3.3	NE	1.2	NE	NE	NE	2.3
North of Former Gas Station Building	SB-1-5.5	5.0 - 5.5	Soil	<1	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
North End of Former Canopy	SB-2-2	1.5 - 2.0	Soil	<1	<b>16</b>	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>ESL for Groundwater</b>				100	100	100	80	NE	NE	80	30	NE	6.1	NE	NE	NE	20
North of Former Gas Station Building	SB-1-W	NA	Ground- water	<50	<b>120</b>	<50	<b>1.3</b>	<0.5	<0.5	<b>5.5</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
North End of Former Canopy	SB-2-W	NA	Ground- water	<b>1,400</b>	<b>1,000</b>	<b>1,400</b>	<b>1.3</b>	<b>4.9</b>	<b>1.1</b>	<b>5.8</b>	<b>6.1</b>	<b>1.1</b>	<b>5.3</b>	<b>4.5</b>	<b>28</b>	<b>7.2</b>	<b>19</b>

**Notes:**

Units: Soil: mg/kg = milligrams per kilogram, Groundwater: µg/L = micrograms per liter

1. bgs = below ground surface

2. TPHg, TPHd, TPHss = Total petroleum hydrocarbons (TPH) quantified as gasoline, quantified as diesel, and TPH quantified as Stoddard solvent were analyzed using U.S. EPA Method 8015B/C.

3. Volatile organic compounds (VOCs) were analyzed using U.S. EPA Method 8260B.

ESL for Shallow Soil = Environmental Screening Levels for shallow soil as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Shallow Soil Screening Levels (<3 m bgs) Commercial/Industrial Land Use (groundwater is a current or potential drinking water resource), Table A-2, December 2013).

ESL for Groundwater = Environmental Screening Levels for groundwater as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Groundwater Screening Levels (groundwater is a current or potential drinking water resource), Table F-1a, December 2013).

NE = Not established

<1 = Not detected at stated concentration

**Bold** = Compound detected

**Bold** =   Compound detected above ESL

**Table 3  
Soil and Groundwater Samples Inorganics Analytical Summary  
Main Street Property  
927 Main Street  
Pleasanton, California**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Metals (soil: mg/kg, GW: µg/L)				
				Cadmium	Chromium	Lead	Nickel	Zinc
<b>Analytes</b>								
<b>ESL for Shallow Soil</b>				12	2,500	320	150	600
North of Former Gas Station Building	SB-1-5.5	5.0 - 5.5	Soil	<0.25	<b>260</b>	<b>10</b>	<b>240</b>	<b>60</b>
North End of Former Canopy	SB-2-2	1.5 - 2.0	Soil	<b>0.36</b>	<b>130</b>	<b>61</b>	<b>80</b>	<b>110</b>
<b>ESL for Groundwater</b>				0.25	50	2.5	8.2	81
North of Former Gas Station Building	SB-1-W	NA	Groundwater	<0.25	<b>0.63</b>	<0.5	<b>1.8</b>	<15
North End of Former Canopy	SB-2-W	NA	Groundwater	<0.25	<0.5	<0.5	<b>4.8</b>	<15

**Notes:**

Units: Soil: mg/kg = milligrams per kilogram; Groundwater: µg/L = micrograms per liter

1. bgs = below ground surface

ESL for Shallow Soil = Environmental Screening Levels for shallow soil as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Shallow Soil Screening Levels (<3 m bgs) Commercial/Industrial Land Use (groundwater is a current or potential drinking water resource), Table A-2, December 2013).

ESL for Groundwater = Environmental Screening Levels for groundwater as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Groundwater Screening Levels (groundwater is a current or potential drinking water resource), Table F-1a, December 2013).

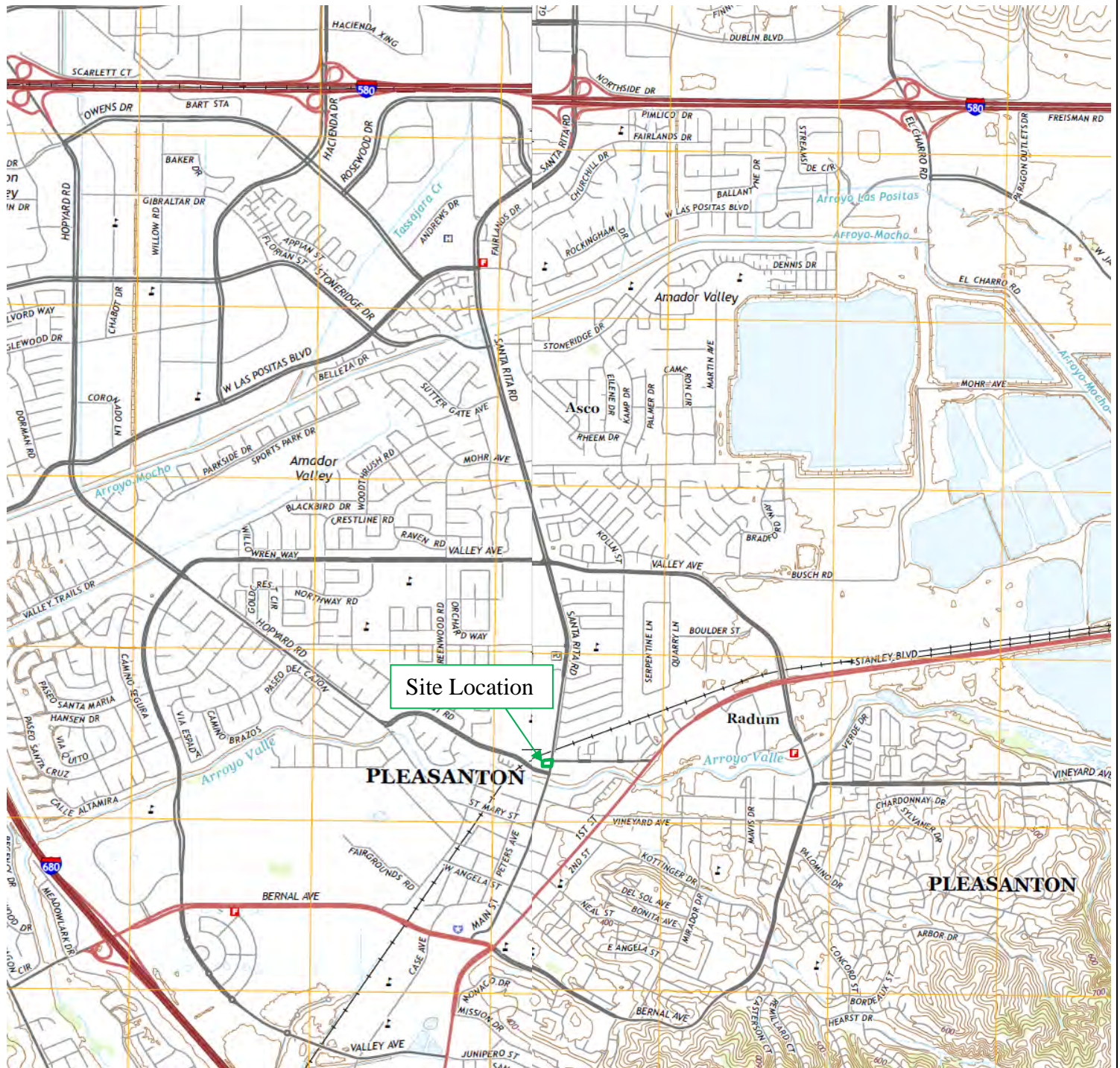
NA = Not Applicable

<0.25 = Not detected at stated concentration

**Bold** = Compound detected

**Bold** = Compound detected above ESL

## FIGURES



USGS Dublin and Livermore, California Quadrangle Topographic Maps, 2015

Legend	
	Site (boundaries approximate)



<b>Site Location Map</b>	
<b>LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT</b>	
927 Main Street, Pleasanton, California	

PN: 01-2015-500-007
Date: November 27, 2015
EP: Lita Freeman
<b>Figure 1</b>





<ul style="list-style-type: none"> <li><span style="color: green;">- - - -</span> Approximate Property Boundary</li> <li><span style="color: red;">. . . . .</span> Former Gas Station Building</li> <li><span style="color: red;">- - - -</span> Former Canopy Over Dispensers</li> <li><span style="color: green;">●</span> Sampling Location</li> </ul>	<p style="text-align: center;">↑ North</p> <p style="text-align: center;">0 _____ 75</p> <p style="text-align: center;">Scale (feet, approximate)</p>
--	---



<b>Site Plan</b>
<b>LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT</b>
927 Main Street, Pleasanton, California

PN: 01-2015-500-007
Date: November 27, 2015
EP: Lita Freeman
<b>Figure 2</b>

**Appendix A**

Site Photographs

Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2015-500-007

**Photograph: 1**

**Description:**

Photo depicts the sampling at boring SB-1 (north of on-site building).



**Photograph: 2**

**Description:**

Photo depicts sampling location SB-2 on southern side of on-site building.





Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2015-500-007

**Photograph: 3**

**Description:**

Photo depicts groundwater sampling at SB-1.



**Photograph: 4**

**Description:**

Photo depicts backfilled boring SB-2.



**Appendix B**

Soil Boring Permit





# ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306

E-MAIL [whong@zone7water.com](mailto:whong@zone7water.com)

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 927 Main Street,  
Pleasanton, CA 94566

PERMIT NUMBER 2015147

WELL NUMBER \_\_\_\_\_

APN 946-3370-022-00

Coordinates Source GoogleEarth ft. Accuracy \_\_\_\_\_ ft.  
LAT: 37.665986 ft. LONG: -121.87388 ft.  
APN 946-3370-22

PERMIT CONDITIONS  
(Circled Permit Requirements Apply)

CLIENT  
Name Mr. Brad Hirst  
Address 4460 Black Ave. Ste L Phone 925-484-3636  
City Pleasanton Zip 94566

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
  2. Submit to Zone 7 within 60 days after completion of permitted work the original **Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.**
  3. Permit is void if project not begun within 90 days of approval date.
  4. Notify Zone 7 at least 24 hours before the start of work.

APPLICANT  
Name Lita Freeman/Basics Environmental  
Email litafreeman@gmail.com Fax \_\_\_\_\_  
Address 1420 E Roseville Pkwy, 140-262 Phone 916-677-9897  
City Roseville Zip 95661

- B. WATER SUPPLY WELLS**
1. Minimum surface seal diameter is four inches greater than the well casing diameter and six inches for public wells.
  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
  3. Grout placed by tremie.
  4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
  5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:  
Well Construction \_\_\_\_\_ Geotechnical Investigation \_\_\_\_\_  
Well Destruction \_\_\_\_\_ Contamination Investigation \_\_\_\_\_  
Cathodic Protection \_\_\_\_\_ Other Baseline \_\_\_\_\_  
Environmental

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.

PROPOSED WELL USE:  
Domestic \_\_\_\_\_ Irrigation \_\_\_\_\_  
Municipal \_\_\_\_\_ Remediation \_\_\_\_\_  
Industrial \_\_\_\_\_ Groundwater Monitoring \_\_\_\_\_  
Dewatering \_\_\_\_\_ Other \_\_\_\_\_

- D. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:  
Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Hollow Stem Auger \_\_\_\_\_  
Cable Tool \_\_\_\_\_ Direct Push  Other \_\_\_\_\_

- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY Cascade Drilling

- F. WELL DESTRUCTION.** See attached.

DRILLER'S LICENSE NO. C57-938110

- G. SPECIAL CONDITIONS.** Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

WELL SPECIFICATIONS:  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number \_\_\_\_\_

SOIL BORINGS:  
Number of Borings 2 Maximum \_\_\_\_\_  
Hole Diameter 1.5 in. Depth 50 ft.

ESTIMATED STARTING DATE 11-13-2015  
ESTIMATED COMPLETION DATE 11-13-2015

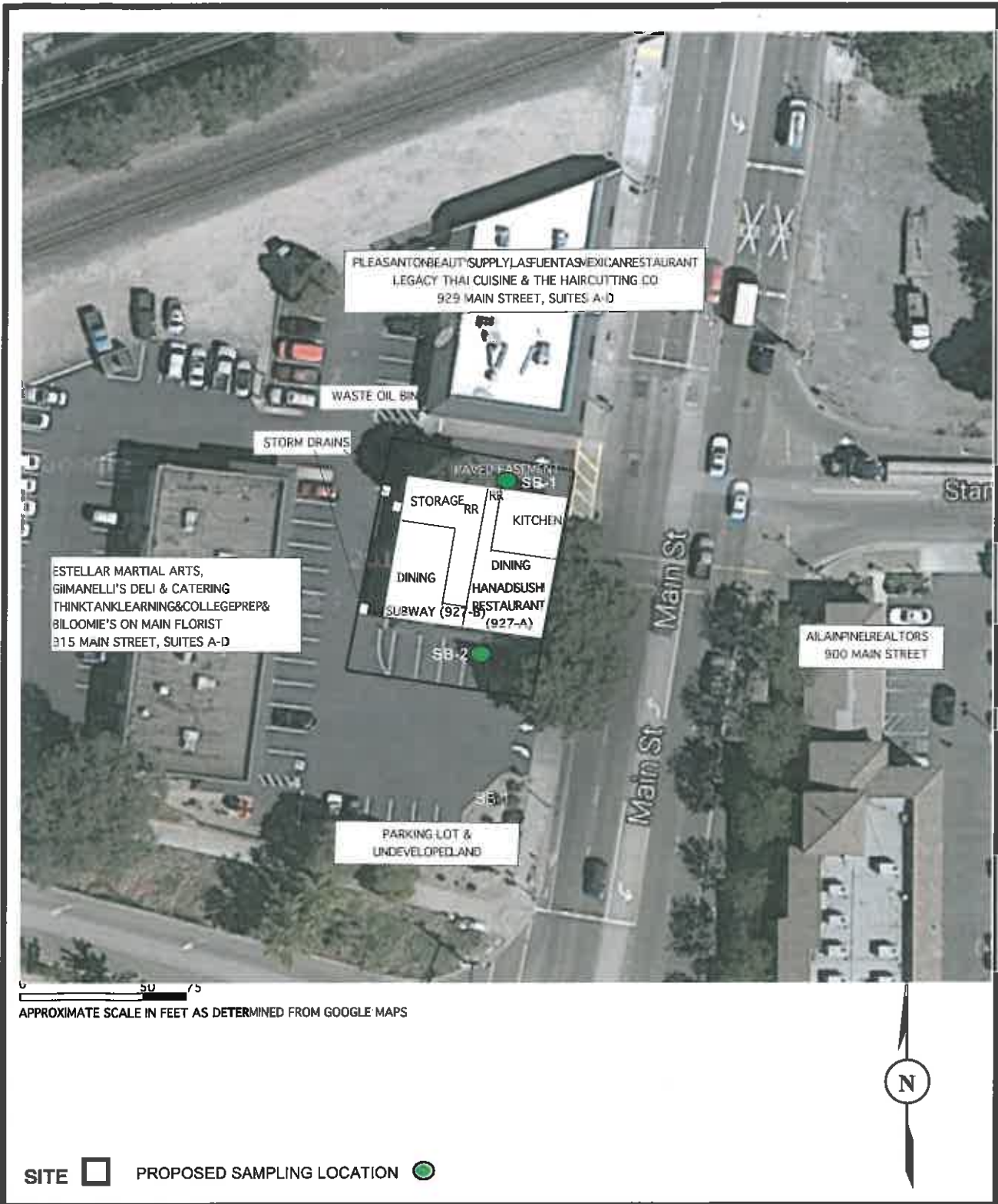
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 11/10/15  
Wyman Hong

APPLICANT'S SIGNATURE Lita D. Freeman Date 11-3-15

ATTACH SITE PLAN OR SKETCH

Revised: May 17, 2011



Site Plan



Phase I Environmental Site Assessment  
 927 Main Street  
 Pleasanton, California

PROJECT NO.  
 13-ENV3567

DRAWING NO.  
 3

**Appendix C**

Soil Boring Logs

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-1

PAGE 1 OF 2

Boring location: See Figure 2

Logged by:

Date started: 11/13/15

Date finished: 11/13/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
1						Asphalt (8 inches) / Baserock (4 inches)						
2						Silt (ML), Brown (7.5 YR 4/6), low plasticity, stiff, dry						
3												
4												
5	184											
6												
7												
8												
9												
10	225											
11						Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderate plasticity, stiff, dry						
12												
13												
14												
15	269											
16												
17												
18												
19												
20	241											
21												
22												
23												
24												
25												
26												
27												
28						- color change to Light Brown (7.5 YR 6/4) at 28 feet bgs						
29												
30												

Boring terminated at a depth of 40 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of NA feet during drilling.



Environmental Risk Assessors

Project No.: 01-2015-500-007

Figure: C-1

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-1

PAGE 2 OF 2

Boring location: See Figure 2

Logged by:

Date started: 11/13/15

Date finished: 11/13/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
31						- moist at 30 feet bgs						
32												
33												
34						- very moist at 34 feet bgs						
35												
36												
37												
38												
39												
40						Bottom of Boring = 40 feet						
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 40 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of NA feet during drilling.



Environmental Risk Assessors

Project No.:  
01-2015-500-007

Figure: C-1



PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-2

PAGE 1 OF 2

Boring location: See Figure 2

Logged by:

Date started: 11/13/15

Date finished: 11/13/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
1						Asphalt (6 inches) / Baserock (4 inches)						
2						FILL MATERIAL, Silt (ML), Brown (7.5 YR 4/6), some medium-grained to coarse-grained gravel with increasing gravel with depth, low plasticity, stiff, dry						
3												
4												
5	264											
6						- fine-grained sand with medium-grained to coarse-grained gravel at 7 feet bgs						
7												
8												
9												
10	209					FILL MATERIAL, Sandy Gravel (GP), Brown (7.5 YR 4/6), coarse-grained gravel, fine-grained to coarse-grained sand, dry						
11												
12												
13												
14						Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderate plasticity, stiff, dry						
15	267											
16												
17												
18						-moist at 28 feet bgs						
19												
20	298											
21												
22												
23												
24												
25												
26												
27												
28												
29												
30	376											

Boring terminated at a depth of 36 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of NA feet during drilling.



Environmental Risk Assessors

Project No.: 01-2015-500-007

Figure: C-2

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-2

PAGE 2 OF 2

Boring location: See Figure 2

Logged by:

Date started: 11/13/15

Date finished: 11/13/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES					LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>									
							Ground Surface Elevation: -- feet <sup>2</sup>						
31							-color change to green with petroleum hydrocarbon odor from 30 feet bgs to 34 feet bgs						
32													
33													
34							-very moist at 34 feet bgs						
35													
36							Bottom of Boring = 36 feet						
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													

Boring terminated at a depth of 36 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of NA feet during drilling.



Environmental Risk Assessors

Project No.:  
01-2015-500-007

Figure: C-2

## **Appendix D**

Laboratory Analytical Report and  
Chain-of-Custody Documentation



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1511651

**Report Created for:** Basics Environmental

655 12th Street, Suite 126  
Oakland, CA 94607

**Project Contact:** Donovan Tom

**Project P.O.:**

**Project Name:** Pleasanton, CA

**Project Received:** 11/13/2015

Analytical Report reviewed & approved for release on 11/20/2015 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** Pleasanton, CA  
**WorkOrder:** 1511651

### Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)





## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** Pleasanton, CA  
**WorkOrder:** 1511651

### Analytical Qualifiers

S spike recovery outside accepted recovery limits  
F sample was filtered upon arrival to the lab  
c4 surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.  
d2 heavier gasoline range compounds are significant (aged gasoline?)  
d9 no recognizable pattern  
e2 diesel range compounds are significant; no recognizable pattern  
e4 gasoline range compounds are significant.  
e7 oil range compounds are significant

### Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1511651-001B	Soil	11/13/2015 08:15	GC10	112956
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	11/16/2015 11:04	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/16/2015 11:04	
Benzene	ND	0.0050	1	11/16/2015 11:04	
Bromobenzene	ND	0.0050	1	11/16/2015 11:04	
Bromochloromethane	ND	0.0050	1	11/16/2015 11:04	
Bromodichloromethane	ND	0.0050	1	11/16/2015 11:04	
Bromoform	ND	0.0050	1	11/16/2015 11:04	
Bromomethane	ND	0.0050	1	11/16/2015 11:04	
2-Butanone (MEK)	ND	0.020	1	11/16/2015 11:04	
t-Butyl alcohol (TBA)	ND	0.050	1	11/16/2015 11:04	
n-Butyl benzene	ND	0.0050	1	11/16/2015 11:04	
sec-Butyl benzene	ND	0.0050	1	11/16/2015 11:04	
tert-Butyl benzene	ND	0.0050	1	11/16/2015 11:04	
Carbon Disulfide	ND	0.0050	1	11/16/2015 11:04	
Carbon Tetrachloride	ND	0.0050	1	11/16/2015 11:04	
Chlorobenzene	ND	0.0050	1	11/16/2015 11:04	
Chloroethane	ND	0.0050	1	11/16/2015 11:04	
Chloroform	ND	0.0050	1	11/16/2015 11:04	
Chloromethane	ND	0.0050	1	11/16/2015 11:04	
2-Chlorotoluene	ND	0.0050	1	11/16/2015 11:04	
4-Chlorotoluene	ND	0.0050	1	11/16/2015 11:04	
Dibromochloromethane	ND	0.0050	1	11/16/2015 11:04	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/16/2015 11:04	
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/16/2015 11:04	
Dibromomethane	ND	0.0050	1	11/16/2015 11:04	
1,2-Dichlorobenzene	ND	0.0050	1	11/16/2015 11:04	
1,3-Dichlorobenzene	ND	0.0050	1	11/16/2015 11:04	
1,4-Dichlorobenzene	ND	0.0050	1	11/16/2015 11:04	
Dichlorodifluoromethane	ND	0.0050	1	11/16/2015 11:04	
1,1-Dichloroethane	ND	0.0050	1	11/16/2015 11:04	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/16/2015 11:04	
1,1-Dichloroethene	ND	0.0050	1	11/16/2015 11:04	
cis-1,2-Dichloroethene	ND	0.0050	1	11/16/2015 11:04	
trans-1,2-Dichloroethene	ND	0.0050	1	11/16/2015 11:04	
1,2-Dichloropropane	ND	0.0050	1	11/16/2015 11:04	
1,3-Dichloropropane	ND	0.0050	1	11/16/2015 11:04	
2,2-Dichloropropane	ND	0.0050	1	11/16/2015 11:04	

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1511651-001B	Soil	11/13/2015 08:15	GC10	112956
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	11/16/2015 11:04	
cis-1,3-Dichloropropene	ND	0.0050	1	11/16/2015 11:04	
trans-1,3-Dichloropropene	ND	0.0050	1	11/16/2015 11:04	
Diisopropyl ether (DIPE)	ND	0.0050	1	11/16/2015 11:04	
Ethylbenzene	ND	0.0050	1	11/16/2015 11:04	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/16/2015 11:04	
Freon 113	ND	0.0050	1	11/16/2015 11:04	
Hexachlorobutadiene	ND	0.0050	1	11/16/2015 11:04	
Hexachloroethane	ND	0.0050	1	11/16/2015 11:04	
2-Hexanone	ND	0.0050	1	11/16/2015 11:04	
Isopropylbenzene	ND	0.0050	1	11/16/2015 11:04	
4-Isopropyl toluene	ND	0.0050	1	11/16/2015 11:04	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/16/2015 11:04	
Methylene chloride	ND	0.0050	1	11/16/2015 11:04	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/16/2015 11:04	
Naphthalene	ND	0.0050	1	11/16/2015 11:04	
n-Propyl benzene	ND	0.0050	1	11/16/2015 11:04	
Styrene	ND	0.0050	1	11/16/2015 11:04	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/16/2015 11:04	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/16/2015 11:04	
Tetrachloroethene	ND	0.0050	1	11/16/2015 11:04	
Toluene	ND	0.0050	1	11/16/2015 11:04	
1,2,3-Trichlorobenzene	ND	0.0050	1	11/16/2015 11:04	
1,2,4-Trichlorobenzene	ND	0.0050	1	11/16/2015 11:04	
1,1,1-Trichloroethane	ND	0.0050	1	11/16/2015 11:04	
1,1,2-Trichloroethane	ND	0.0050	1	11/16/2015 11:04	
Trichloroethene	ND	0.0050	1	11/16/2015 11:04	
Trichlorofluoromethane	ND	0.0050	1	11/16/2015 11:04	
1,2,3-Trichloropropane	ND	0.0050	1	11/16/2015 11:04	
1,2,4-Trimethylbenzene	ND	0.0050	1	11/16/2015 11:04	
1,3,5-Trimethylbenzene	ND	0.0050	1	11/16/2015 11:04	
Vinyl Chloride	ND	0.0050	1	11/16/2015 11:04	
Xylenes, Total	ND	0.0050	1	11/16/2015 11:04	

(Cont.)



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

## Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1511651-001B	Soil	11/13/2015 08:15	GC10	112956

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	
Dibromofluoromethane	99	70-130		11/16/2015 11:04
Toluene-d8	109	70-130		11/16/2015 11:04
4-BFB	93	70-130		11/16/2015 11:04
Benzene-d6	75	60-140		11/16/2015 11:04
Ethylbenzene-d10	89	60-140		11/16/2015 11:04
1,2-DCB-d4	66	60-140		11/16/2015 11:04

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5.5	1511651-008B	Soil	11/13/2015 10:05	GC10	112987
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	11/16/2015 11:44	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/16/2015 11:44	
Benzene	ND	0.0050	1	11/16/2015 11:44	
Bromobenzene	ND	0.0050	1	11/16/2015 11:44	
Bromochloromethane	ND	0.0050	1	11/16/2015 11:44	
Bromodichloromethane	ND	0.0050	1	11/16/2015 11:44	
Bromoform	ND	0.0050	1	11/16/2015 11:44	
Bromomethane	ND	0.0050	1	11/16/2015 11:44	
2-Butanone (MEK)	ND	0.020	1	11/16/2015 11:44	
t-Butyl alcohol (TBA)	ND	0.050	1	11/16/2015 11:44	
n-Butyl benzene	ND	0.0050	1	11/16/2015 11:44	
sec-Butyl benzene	ND	0.0050	1	11/16/2015 11:44	
tert-Butyl benzene	ND	0.0050	1	11/16/2015 11:44	
Carbon Disulfide	ND	0.0050	1	11/16/2015 11:44	
Carbon Tetrachloride	ND	0.0050	1	11/16/2015 11:44	
Chlorobenzene	ND	0.0050	1	11/16/2015 11:44	
Chloroethane	ND	0.0050	1	11/16/2015 11:44	
Chloroform	ND	0.0050	1	11/16/2015 11:44	
Chloromethane	ND	0.0050	1	11/16/2015 11:44	
2-Chlorotoluene	ND	0.0050	1	11/16/2015 11:44	
4-Chlorotoluene	ND	0.0050	1	11/16/2015 11:44	
Dibromochloromethane	ND	0.0050	1	11/16/2015 11:44	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/16/2015 11:44	
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/16/2015 11:44	
Dibromomethane	ND	0.0050	1	11/16/2015 11:44	
1,2-Dichlorobenzene	ND	0.0050	1	11/16/2015 11:44	
1,3-Dichlorobenzene	ND	0.0050	1	11/16/2015 11:44	
1,4-Dichlorobenzene	ND	0.0050	1	11/16/2015 11:44	
Dichlorodifluoromethane	ND	0.0050	1	11/16/2015 11:44	
1,1-Dichloroethane	ND	0.0050	1	11/16/2015 11:44	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/16/2015 11:44	
1,1-Dichloroethene	ND	0.0050	1	11/16/2015 11:44	
cis-1,2-Dichloroethene	ND	0.0050	1	11/16/2015 11:44	
trans-1,2-Dichloroethene	ND	0.0050	1	11/16/2015 11:44	
1,2-Dichloropropane	ND	0.0050	1	11/16/2015 11:44	
1,3-Dichloropropane	ND	0.0050	1	11/16/2015 11:44	
2,2-Dichloropropane	ND	0.0050	1	11/16/2015 11:44	

(Cont.)





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5.5	1511651-008B	Soil	11/13/2015 10:05	GC10	112987

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/16/2015 11:44
cis-1,3-Dichloropropene	ND	0.0050	1	11/16/2015 11:44
trans-1,3-Dichloropropene	ND	0.0050	1	11/16/2015 11:44
Diisopropyl ether (DIPE)	ND	0.0050	1	11/16/2015 11:44
Ethylbenzene	ND	0.0050	1	11/16/2015 11:44
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/16/2015 11:44
Freon 113	ND	0.0050	1	11/16/2015 11:44
Hexachlorobutadiene	ND	0.0050	1	11/16/2015 11:44
Hexachloroethane	ND	0.0050	1	11/16/2015 11:44
2-Hexanone	ND	0.0050	1	11/16/2015 11:44
Isopropylbenzene	ND	0.0050	1	11/16/2015 11:44
4-Isopropyl toluene	ND	0.0050	1	11/16/2015 11:44
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/16/2015 11:44
Methylene chloride	ND	0.0050	1	11/16/2015 11:44
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/16/2015 11:44
Naphthalene	ND	0.0050	1	11/16/2015 11:44
n-Propyl benzene	ND	0.0050	1	11/16/2015 11:44
Styrene	ND	0.0050	1	11/16/2015 11:44
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/16/2015 11:44
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/16/2015 11:44
Tetrachloroethene	ND	0.0050	1	11/16/2015 11:44
Toluene	ND	0.0050	1	11/16/2015 11:44
1,2,3-Trichlorobenzene	ND	0.0050	1	11/16/2015 11:44
1,2,4-Trichlorobenzene	ND	0.0050	1	11/16/2015 11:44
1,1,1-Trichloroethane	ND	0.0050	1	11/16/2015 11:44
1,1,2-Trichloroethane	ND	0.0050	1	11/16/2015 11:44
Trichloroethene	ND	0.0050	1	11/16/2015 11:44
Trichlorofluoromethane	ND	0.0050	1	11/16/2015 11:44
1,2,3-Trichloropropane	ND	0.0050	1	11/16/2015 11:44
1,2,4-Trimethylbenzene	ND	0.0050	1	11/16/2015 11:44
1,3,5-Trimethylbenzene	ND	0.0050	1	11/16/2015 11:44
Vinyl Chloride	ND	0.0050	1	11/16/2015 11:44
Xylenes, Total	ND	0.0050	1	11/16/2015 11:44

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5.5	1511651-008B	Soil	11/13/2015 10:05	GC10	112987

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	99	70-130		11/16/2015 11:44
Toluene-d8	110	70-130		11/16/2015 11:44
4-BFB	91	70-130		11/16/2015 11:44
Benzene-d6	80	60-140		11/16/2015 11:44
Ethylbenzene-d10	100	60-140		11/16/2015 11:44
1,2-DCB-d4	73	60-140		11/16/2015 11:44

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/17/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1511651-012A	Water	11/12/2015 14:20	GC28	113041
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	10	1	11/17/2015 13:35	
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/17/2015 13:35	
Benzene	ND	0.50	1	11/17/2015 13:35	
Bromobenzene	ND	0.50	1	11/17/2015 13:35	
Bromochloromethane	ND	0.50	1	11/17/2015 13:35	
Bromodichloromethane	1.3	0.50	1	11/17/2015 13:35	
Bromoform	ND	0.50	1	11/17/2015 13:35	
Bromomethane	ND	0.50	1	11/17/2015 13:35	
2-Butanone (MEK)	ND	2.0	1	11/17/2015 13:35	
t-Butyl alcohol (TBA)	ND	2.0	1	11/17/2015 13:35	
n-Butyl benzene	4.9	0.50	1	11/17/2015 13:35	
sec-Butyl benzene	1.1	0.50	1	11/17/2015 13:35	
tert-Butyl benzene	ND	0.50	1	11/17/2015 13:35	
Carbon Disulfide	ND	0.50	1	11/17/2015 13:35	
Carbon Tetrachloride	ND	0.50	1	11/17/2015 13:35	
Chlorobenzene	ND	0.50	1	11/17/2015 13:35	
Chloroethane	ND	0.50	1	11/17/2015 13:35	
Chloroform	5.8	0.50	1	11/17/2015 13:35	
Chloromethane	ND	0.50	1	11/17/2015 13:35	
2-Chlorotoluene	ND	0.50	1	11/17/2015 13:35	
4-Chlorotoluene	ND	0.50	1	11/17/2015 13:35	
Dibromochloromethane	ND	0.50	1	11/17/2015 13:35	
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/17/2015 13:35	
1,2-Dibromoethane (EDB)	ND	0.50	1	11/17/2015 13:35	
Dibromomethane	ND	0.50	1	11/17/2015 13:35	
1,2-Dichlorobenzene	ND	0.50	1	11/17/2015 13:35	
1,3-Dichlorobenzene	ND	0.50	1	11/17/2015 13:35	
1,4-Dichlorobenzene	ND	0.50	1	11/17/2015 13:35	
Dichlorodifluoromethane	ND	0.50	1	11/17/2015 13:35	
1,1-Dichloroethane	ND	0.50	1	11/17/2015 13:35	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/17/2015 13:35	
1,1-Dichloroethene	ND	0.50	1	11/17/2015 13:35	
cis-1,2-Dichloroethene	ND	0.50	1	11/17/2015 13:35	
trans-1,2-Dichloroethene	ND	0.50	1	11/17/2015 13:35	
1,2-Dichloropropane	ND	0.50	1	11/17/2015 13:35	
1,3-Dichloropropane	ND	0.50	1	11/17/2015 13:35	
2,2-Dichloropropane	ND	0.50	1	11/17/2015 13:35	

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/17/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1511651-012A	Water	11/12/2015 14:20	GC28	113041
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.50	1	11/17/2015 13:35	
cis-1,3-Dichloropropene	ND	0.50	1	11/17/2015 13:35	
trans-1,3-Dichloropropene	ND	0.50	1	11/17/2015 13:35	
Diisopropyl ether (DIPE)	ND	0.50	1	11/17/2015 13:35	
Ethylbenzene	6.1	0.50	1	11/17/2015 13:35	
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/17/2015 13:35	
Freon 113	ND	0.50	1	11/17/2015 13:35	
Hexachlorobutadiene	ND	0.50	1	11/17/2015 13:35	
Hexachloroethane	ND	0.50	1	11/17/2015 13:35	
2-Hexanone	ND	0.50	1	11/17/2015 13:35	
Isopropylbenzene	1.1	0.50	1	11/17/2015 13:35	
4-Isopropyl toluene	ND	0.50	1	11/17/2015 13:35	
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/17/2015 13:35	
Methylene chloride	ND	0.50	1	11/17/2015 13:35	
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/17/2015 13:35	
Naphthalene	5.3	0.50	1	11/17/2015 13:35	
n-Propyl benzene	4.5	0.50	1	11/17/2015 13:35	
Styrene	ND	0.50	1	11/17/2015 13:35	
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/17/2015 13:35	
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/17/2015 13:35	
Tetrachloroethene	ND	0.50	1	11/17/2015 13:35	
Toluene	ND	0.50	1	11/17/2015 13:35	
1,2,3-Trichlorobenzene	ND	0.50	1	11/17/2015 13:35	
1,2,4-Trichlorobenzene	ND	0.50	1	11/17/2015 13:35	
1,1,1-Trichloroethane	ND	0.50	1	11/17/2015 13:35	
1,1,2-Trichloroethane	ND	0.50	1	11/17/2015 13:35	
Trichloroethene	ND	0.50	1	11/17/2015 13:35	
Trichlorofluoromethane	ND	0.50	1	11/17/2015 13:35	
1,2,3-Trichloropropane	ND	0.50	1	11/17/2015 13:35	
1,2,4-Trimethylbenzene	28	0.50	1	11/17/2015 13:35	
1,3,5-Trimethylbenzene	7.2	0.50	1	11/17/2015 13:35	
Vinyl Chloride	ND	0.50	1	11/17/2015 13:35	
Xylenes, Total	19	0.50	1	11/17/2015 13:35	

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# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/17/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1511651-012A	Water	11/12/2015 14:20	GC28	113041

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	70-130		11/17/2015 13:35
Toluene-d8	84	70-130		11/17/2015 13:35
4-BFB	76	70-130		11/17/2015 13:35

Analyst(s): KF





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg

### Gasoline Range(C6-C12) & Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons W/BTEX & MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1511651-001B	Soil	11/13/2015 08:15	GC19	112983

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/16/2015 22:59
MTBE	---	0.050	1	11/16/2015 22:59
Benzene	---	0.0050	1	11/16/2015 22:59
Toluene	---	0.0050	1	11/16/2015 22:59
Ethylbenzene	---	0.0050	1	11/16/2015 22:59
TPH(ss)	ND	1.0	1	11/16/2015 22:59
Xylenes	---	0.0050	1	11/16/2015 22:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	101	70-130		11/16/2015 22:59

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5.5	1511651-008B	Soil	11/13/2015 10:05	GC7	112983

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/16/2015 21:16
MTBE	---	0.050	1	11/16/2015 21:16
Benzene	---	0.0050	1	11/16/2015 21:16
Toluene	---	0.0050	1	11/16/2015 21:16
Ethylbenzene	---	0.0050	1	11/16/2015 21:16
TPH(ss)	ND	1.0	1	11/16/2015 21:16
Xylenes	---	0.0050	1	11/16/2015 21:16
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	91	70-130		11/16/2015 21:16

Analyst(s): IA



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/18/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L

### Gasoline Range(C6-C12) & Stoddard Solvent Range(C9-C12) Volatile Hydrocarbons W/BTEX & MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1511651-012B	Water	11/12/2015 14:20	GC3	113157

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1400	50	1	11/18/2015 15:06
MTBE	---	5.0	1	11/18/2015 15:06
Benzene	---	0.50	1	11/18/2015 15:06
Toluene	---	0.50	1	11/18/2015 15:06
Ethylbenzene	---	0.50	1	11/18/2015 15:06
TPH(ss)	1400	50	1	11/18/2015 15:06
Xylenes	---	0.50	1	11/18/2015 15:06

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
aaa-TFT	134	S	70-130	11/18/2015 15:06

**Analyst(s):** IA

**Analytical Comments:** d2,d9,c4



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1511651-001B	Soil	11/13/2015 08:15	ICP-MS1	112978

Analytes	Result	RL	DF	Date Analyzed
Cadmium	0.36	0.25	1	11/16/2015 21:23
Chromium	130	0.50	1	11/16/2015 21:23
Lead	61	0.50	1	11/16/2015 21:23
Nickel	80	0.50	1	11/16/2015 21:23
Zinc	110	5.0	1	11/16/2015 21:23

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	11/16/2015 21:23

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5.5	1511651-008B	Soil	11/13/2015 10:05	ICP-MS1	112978

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	11/16/2015 21:29
Chromium	260	0.50	1	11/16/2015 21:29
Lead	10	0.50	1	11/16/2015 21:29
Nickel	240	0.50	1	11/16/2015 21:29
Zinc	60	5.0	1	11/16/2015 21:29

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	11/16/2015 21:29

Analyst(s): DVH



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L

### Dissolved LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1511651-012C	Water	11/12/2015 14:20	ICP-MS2	112971

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Cadmium	ND	F	0.25	1	11/16/2015 21:48
Chromium	ND	F	0.50	1	11/16/2015 21:48
Lead	ND	F	0.50	1	11/16/2015 21:48
Nickel	<b>4.8</b>	F	0.50	1	11/16/2015 21:48
Zinc	ND	F	15	1	11/16/2015 21:48

**Analyst(s):** BBO



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

### Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1511651-001B	Soil	11/13/2015 08:15	GC2A	112979

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	16	10	10	11/17/2015 05:47

Surrogates	REC (%)	Limits	Date Analyzed
C9	98	70-130	11/17/2015 05:47

Analyst(s): TK

Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-5.5	1511651-008B	Soil	11/13/2015 10:05	GC2A	112979

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/17/2015 17:05

Surrogates	REC (%)	Limits	Date Analyzed
C9	99	70-130	11/17/2015 17:05

Analyst(s): TK



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 19:17  
**Date Prepared:** 11/16/15  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

## Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1511651-012B	Water	11/12/2015 14:20	GC9b	112980

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	1000	100	1	11/16/2015 17:03

Surrogates	REC (%)	Limits	Date Analyzed
C9	100	70-130	11/16/2015 17:03

**Analyst(s):** TK      **Analytical Comments:** e4





## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC16, GC18  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112956  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112956  
 1511658-017AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0412	0.0050	0.050	-	82	53-116
Benzene	ND	0.0455	0.0050	0.050	-	91	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.171	0.050	0.20	-	86	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0471	0.0050	0.050	-	94	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0441	0.0040	0.050	-	88	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0436	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0453	0.0050	0.050	-	91	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC16, GC18  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112956  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112956  
 1511658-017AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0400	0.0050	0.050	-	80	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0406	0.0050	0.050	-	81	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0436	0.0050	0.050	-	87	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0442	0.0050	0.050	-	88	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0490	0.0050	0.050	-	98	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC16, GC18  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112956  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112956  
 1511658-017AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	0.115	0.123		0.12	92	99	70-130
Toluene-d8	0.120	0.131		0.12	96	105	70-130
4-BFB	0.0107	0.0125		0.012	85	100	70-130
Benzene-d6	0.0861	0.101		0.10	86	101	60-140
Ethylbenzene-d10	0.0944	0.108		0.10	94	108	60-140
1,2-DCB-d4	0.0687	0.0948		0.10	69	95	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0378	0.0383	0.050	ND	76	77	70-130	1.19	20
Benzene	0.0391	0.0392	0.050	ND	78	78	70-130	0	20
t-Butyl alcohol (TBA)	0.170	0.171	0.20	ND	85	85	70-130	0	20
Chlorobenzene	0.0400	0.0406	0.050	ND	80	81	70-130	1.46	20
1,2-Dibromoethane (EDB)	0.0375	0.0376	0.050	ND	75	75	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	0.0396	0.0403	0.050	ND	79	81	70-130	1.59	20
1,1-Dichloroethene	0.0392	0.0395	0.050	ND	78	79	70-130	0.918	20
Diisopropyl ether (DIPE)	0.0400	0.0400	0.050	ND	80	80	70-130	0	20
Ethyl tert-butyl ether (ETBE)	0.0391	0.0392	0.050	ND	78	78	70-130	0	20
Methyl-t-butyl ether (MTBE)	0.0384	0.0388	0.050	ND	77	78	70-130	1.04	20
Toluene	0.0426	0.0428	0.050	ND	85	86	70-130	0.334	20
Trichloroethene	0.0391	0.0401	0.050	ND	78	80	70-130	2.52	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	0.125	0.126	0.12		100	101	70-130	0.764	20
Toluene-d8	0.132	0.132	0.12		106	105	70-130	0.382	20
4-BFB	0.0106	0.0109	0.012		85	87	70-130	2.55	20
Benzene-d6	0.0770	0.0772	0.10		77	77	60-140	0	20
Ethylbenzene-d10	0.0906	0.0914	0.10		91	91	60-140	0	20
1,2-DCB-d4	0.0685	0.0687	0.10		69	69	60-140	0	20

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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC10  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112987  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112987  
 1511651-008BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0417	0.0050	0.050	-	83	53-116
Benzene	ND	0.0426	0.0050	0.050	-	85	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.193	0.050	0.20	-	96	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0451	0.0050	0.050	-	90	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0422	0.0040	0.050	-	84	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0434	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0430	0.0050	0.050	-	86	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC10  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112987  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112987  
 1511651-008BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0440	0.0050	0.050	-	88	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0432	0.0050	0.050	-	86	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0424	0.0050	0.050	-	85	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0484	0.0050	0.050	-	97	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0433	0.0050	0.050	-	87	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC10  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112987  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112987  
 1511651-008BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	0.122	0.123		0.12	97	98	70-130
Toluene-d8	0.136	0.136		0.12	109	109	70-130
4-BFB	0.0100	0.0110		0.012	80	88	70-130
Benzene-d6	0.0793	0.0859		0.10	79	86	60-140
Ethylbenzene-d10	0.0979	0.109		0.10	98	109	60-140
1,2-DCB-d4	0.0757	0.0751		0.10	76	75	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0339	0.0344	0.050	ND	68,F1	69,F1	70-130	1.57	20
Benzene	0.0338	0.0345	0.050	ND	68,F1	69,F1	70-130	2.10	20
t-Butyl alcohol (TBA)	0.150	0.151	0.20	ND	75	76	70-130	0.673	20
Chlorobenzene	0.0351	0.0361	0.050	ND	70	72	70-130	2.81	20
1,2-Dibromoethane (EDB)	0.0324	0.0334	0.050	ND	65,F1	67,F1	70-130	3.27	20
1,2-Dichloroethane (1,2-DCA)	0.0348	0.0355	0.050	ND	70	71	70-130	2.18	20
1,1-Dichloroethene	0.0339	0.0344	0.050	ND	68,F1	69,F1	70-130	1.68	20
Diisopropyl ether (DIPE)	0.0354	0.0361	0.050	ND	71	72	70-130	2.07	20
Ethyl tert-butyl ether (ETBE)	0.0346	0.0352	0.050	ND	69,F1	70	70-130	1.71	20
Methyl-t-butyl ether (MTBE)	0.0339	0.0342	0.050	ND	68,F1	69,F1	70-130	1.03	20
Toluene	0.0370	0.0379	0.050	ND	74	76	70-130	2.28	20
Trichloroethene	0.0342	0.0348	0.050	ND	68,F1	70	70-130	1.85	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	0.126	0.125	0.12		100	100	70-130	0	20
Toluene-d8	0.130	0.131	0.12		104	105	70-130	0.674	20
4-BFB	0.0105	0.0108	0.012		84	87	70-130	2.78	20
Benzene-d6	0.0691	0.0701	0.10		69	70	60-140	1.42	20
Ethylbenzene-d10	0.0793	0.0825	0.10		79	82	60-140	3.90	20
1,2-DCB-d4	0.0627	0.0607	0.10		63	61	60-140	3.21	20





## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/17/15  
**Date Analyzed:** 11/17/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 113041  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113041  
 1511658-007BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	8.23	0.50	10	-	82	54-140
Benzene	ND	9.20	0.50	10	-	92	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	29.0	2.0	40	-	73	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.56	0.50	10	-	96	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.31	0.50	10	-	93	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	8.14	0.50	10	-	81	66-125
1,1-Dichloroethene	ND	9.77	0.50	10	-	98	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/17/15  
**Date Analyzed:** 11/17/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 113041  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113041  
 1511658-007BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	8.78	0.50	10	-	88	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	8.29	0.50	10	-	83	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	8.16	0.50	10	-	82	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	8.56	0.50	10	-	86	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	10.5	0.50	10	-	105	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/17/15  
**Date Analyzed:** 11/17/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 113041  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113041  
 1511658-007BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	23.6	23.6		25	94	95	70-130
Toluene-d8	21.7	21.7		25	87	87	70-130
4-BFB	2.02	2.00		2.5	81	80	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	7.81	8.53	10	ND	78	85	69-139	8.83	20
Benzene	8.36	8.97	10	ND	84	90	69-141	7.03	20
t-Butyl alcohol (TBA)	29.8	31.3	40	ND	75	78	41-152	4.93	20
Chlorobenzene	8.99	9.68	10	ND	90	97	77-120	7.42	20
1,2-Dibromoethane (EDB)	9.30	9.85	10	ND	93	99	76-135	5.78	20
1,2-Dichloroethane (1,2-DCA)	7.83	8.37	10	ND	78	84	73-139	6.65	20
1,1-Dichloroethene	9.06	9.46	10	ND	91	95	59-140	4.33	20
Diisopropyl ether (DIPE)	8.25	8.91	10	ND	82	89	72-140	7.71	20
Ethyl tert-butyl ether (ETBE)	7.88	8.54	10	ND	79	85	71-140	8.09	20
Methyl-t-butyl ether (MTBE)	7.86	8.47	10	ND	79	85	73-139	7.48	20
Toluene	7.82	8.37	10	ND	78	84	71-128	6.76	20
Trichloroethene	9.59	10.2	10	ND	96	102	64-132	6.67	20

<b>Surrogate Recovery</b>									
Dibromofluoromethane	23.6	23.7	25		94	95	70-130	0.247	20
Toluene-d8	21.7	21.6	25		87	86	70-130	0.488	20
4-BFB	2.01	1.98	2.5		80	79	70-130	1.64	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15 - 11/17/15  
**Instrument:** GC2A, GC9b  
**Matrix:** Water  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112980  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112980

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1020	50	1000	-	102	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
<b>Surrogate Recovery</b>							
C9	602	610		625	96	98	65-122

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC19  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112983  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112983  
 1511651-001BMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.599	0.40	0.60	-	100	70-130
MTBE	ND	0.0930	0.050	0.10	-	93	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.105	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.108	0.0050	0.10	-	108	70-130
Xylenes	ND	0.344	0.0050	0.30	-	115	70-130

**Surrogate Recovery**

2-Fluorotoluene	0.121	0.124		0.10	121	124	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.432	0.475	0.60	ND	72	79	70-130	9.47	20
MTBE	0.0751	0.0768	0.10	ND	75	77	70-130	2.24	20
Benzene	0.0691	0.0763	0.10	ND	69,F1	76	70-130	9.89	20
Toluene	0.0690	0.0724	0.10	ND	69,F1	72	70-130	4.75	20
Ethylbenzene	0.0759	0.0784	0.10	ND	76	78	70-130	3.19	20
Xylenes	0.239	0.247	0.30	ND	80	82	70-130	3.48	20

**Surrogate Recovery**

2-Fluorotoluene	0.0896	0.0908	0.10		90	91	70-130	1.38	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/18/15  
**Date Analyzed:** 11/18/15  
**Instrument:** GC3  
**Matrix:** Water  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 113157  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113157  
 1511782-001IMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	57.6	40	60	-	96	70-130
MTBE	ND	9.87	5.0	10	-	99	70-130
Benzene	ND	9.73	0.50	10	-	97	70-130
Toluene	ND	9.96	0.50	10	-	100	70-130
Ethylbenzene	ND	10.2	0.50	10	-	102	70-130
Xylenes	ND	31.0	1.5	30	-	103	70-130

**Surrogate Recovery**

aaa-TFT	8.15	8.76		10	81	88	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	59.0	58.8	60	ND	98	98	70-130	0	20
MTBE	9.29	9.47	10	ND	93	95	70-130	1.83	20
Benzene	9.84	10.1	10	ND	98	101	70-130	2.17	20
Toluene	10.0	10.2	10	ND	98	100	70-130	1.79	20
Ethylbenzene	10.2	10.4	10	ND	102	104	70-130	2.24	20
Xylenes	30.8	31.5	30	ND	102	104	70-130	2.36	20

**Surrogate Recovery**

aaa-TFT	9.06	8.96	10		91	90	70-130	1.11	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15 - 11/17/15  
**Instrument:** ICP-MS1, ICP-MS2  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112978  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112978  
 1511660-010AMS/MSD

### QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	55.8	0.25	50	-	112	75-125
Chromium	ND	52.1	0.50	50	-	104	75-125
Lead	ND	56.4	0.50	50	-	113	75-125
Nickel	ND	53.1	0.50	50	-	106	75-125
Zinc	ND	554	5.0	500	-	111	75-125

#### Surrogate Recovery

Terbium	512	609		500	102	122	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	49.3	49.1	50	0.27	98	98	75-125	0	20
Chromium	117	116	50	70	95	92	75-125	1.12	20
Lead	59.7	59.2	50	10.56	98	97	75-125	0.925	20
Nickel	136	136	50	92	89	88	75-125	0.515	20
Zinc	547	551	500	66	96	97	75-125	0.711	20

#### Surrogate Recovery

Terbium	542	532	500		108	106	70-130	1.99	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** ICP-MS2  
**Matrix:** Water  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112971  
**Extraction Method:** E200.8  
**Analytical Method:** E200.8  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112971  
 1511658-012CMS/MSD

### QC Summary Report for Dissolved Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	48.4	0.25	50	-	97	85-115
Chromium	ND	50.0	0.50	50	-	100	85-115
Lead	ND	49.1	0.50	50	-	98	85-115
Nickel	ND	50.6	0.50	50	-	101	85-115
Zinc	ND	507	15	500	-	101	85-115

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	51.1	50.1	50	ND	102	100	70-130	2.02	20
Chromium	50.8	48.8	50	1.297	99	95	70-130	4.10	20
Lead	54.0	53.4	50	1.068	106	105	70-130	1.12	20
Nickel	54.2	52.8	50	4.884	99	96	70-130	2.54	20
Zinc	508	492	500	ND	102	98	70-130	3.08	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/16/15  
**Date Analyzed:** 11/16/15  
**Instrument:** GC6A, GC9a  
**Matrix:** Soil  
**Project:** Pleasanton, CA

**WorkOrder:** 1511651  
**BatchID:** 112979  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112979  
 1511662-006AMS/MSD

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	45.4	1.0	40	-	113	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
<b>Surrogate Recovery</b>							
C9	26.4	26.4		25	106	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		83	NR	NR	-	NR	
<b>Surrogate Recovery</b>									
C9	NR	NR			NR	NR	-	NR	



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 1511651**

**ClientCode: BEO**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Donavan Tom  
Basics Environmental  
655 12th Street, Suite 126  
Oakland, CA 94607  
(510) 834-9099    FAX: (510) 834-9098

Email: basicsenvironmental@gmail.com  
cc/3rd Party: litafreeman@gmail.com;  
PO:  
ProjectNo: Pleasanton, CA

**Bill to:**

Accounts Payable  
Basics Environmental  
655 12th Street, Suite 126  
Oakland, CA 94607

**Requested TAT: 5 days;**

**Date Received: 11/13/2015**  
**Date Printed: 11/16/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1511651-001	SB-2-2	Soil	11/13/2015 8:15	<input type="checkbox"/>	B		B		B			B				
1511651-008	SB-1-5.5	Soil	11/13/2015 10:05	<input type="checkbox"/>	B		B		B			B				
1511651-012	SB-2-W	Water	11/12/2015 14:20	<input type="checkbox"/>		A		B		C	C		B			

**Test Legend:**

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W
5	LUFTMS_6020_S	6	LUFTMS_DISS	7	PRDISSOLVED	8	TPH(D)_S
9	TPH(D)_W	10		11		12	

The following SampleIDs: 001B, 008B, 012B contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1511651

**Project:** Pleasanton, CA

**Client Contact:** Donovan Tom

**Date Received:** 11/13/2015

**Comments:**

**Contact's Email:** basicsenvironmental@gmail.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511651-001B	SB-2-2	Soil	SW6020 (LUFT)	1	Acetate Liner	<input type="checkbox"/>	11/13/2015 8:15	5 days		<input type="checkbox"/>	
			Multi-Range TPH(g,d,mo)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1511651-002A	SB-2-5.5	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 8:25			<input checked="" type="checkbox"/>	
1511651-003A	SB-2-10	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 8:35			<input checked="" type="checkbox"/>	
1511651-004A	SB-2-15	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 8:40			<input checked="" type="checkbox"/>	
1511651-005A	SB-2-20	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 8:45			<input checked="" type="checkbox"/>	
1511651-006A	SB-2-30	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 9:05			<input checked="" type="checkbox"/>	
1511651-007A	SB-1-2	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 10:00			<input checked="" type="checkbox"/>	
1511651-008B	SB-1-5.5	Soil	SW6020 (LUFT)	1	Acetate Liner	<input type="checkbox"/>	11/13/2015 10:05	5 days		<input type="checkbox"/>	
			Multi-Range TPH(g,d,mo)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1511651-009A	SB-1-10	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 10:10			<input checked="" type="checkbox"/>	
1511651-010A	SB-1-15	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 10:15			<input checked="" type="checkbox"/>	
1511651-011A	SB-1-20	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 10:40			<input checked="" type="checkbox"/>	
1511651-012A	SB-2-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	11/12/2015 14:20	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).  
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1511651

**Project:** Pleasanton, CA

**Client Contact:** Donovan Tom

**Date Received:** 11/13/2015

**Comments:**

**Contact's Email:** basicsenvironmental@gmail.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511651-012B	SB-2-W	Water	Multi-Range TPH(g,d,mo)	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	11/12/2015 14:20	5 days	Present	<input type="checkbox"/>	
1511651-012C	SB-2-W	Water	E200.8 (LUFT) (Dissolved-Lab Filtered)	1	250mL HDPE, unprsv.	<input type="checkbox"/>	11/12/2015 14:20	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).  
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.





# Calscience Environmental Laboratories, Inc.

1511651

## CHAIN OF CUSTODY RECORD

SoCal Laboratory  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
(714) 895-5494

NorCal Service Center  
5063 Commercial Circle, Suite H  
Concord, CA 94520-8577  
(925) 689-9022

WO # / LAB USE ONLY

<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	---	--------------------------	--------------------------	--------------------------	--------------------------

Date: 11-13-15  
Page: 1 of 2

LABORATORY CLIENT: Basics Environmental  
ADDRESS: 655 12th Street Ste 126  
CITY: Oakland STATE: CA ZIP: 94607  
TEL: 510 834 9099 E-MAIL: BasicsEnvironmental@gmail.com  
TURNAROUND TIME:  
 SAME DAY  24 HR  48 HR  72 HR  STANDARD 5day  
 COELT EDF GLOBAL ID LOG CODE

CLIENT PROJECT NAME / NUMBER: Pleasanton, CA P.O. NO.:  
PROJECT CONTACT: Donaven Tom/Lita Freeman SAMPLER(S): (PRINT) Lita Freeman

### REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
Email report to: BasicsEnvironmental@gmail.com  
lita.freeman@gmail.com  
Lab Filter water samples within 24hrs (LVFTS)

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (g) or DRO or (C6C36) or (C6-C44)	TPH (Standard Solvent)	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010B/747X)	Cr(VI) [7196 or 7199 or 218.6]	LVFTS METALS.	HOLD.	
		DATE	TIME																					
	SB-2-2	11-13-15	0815	S	1				X	X	X		X									X		
	SB-2-5.5	11-13-15	0825	S	1																			X
	SB-2-10	11-13-15	0835	S	1																			X
	SB-2-15	11-13-15	0840	S	1																			X
	SB-2-20	11-13-15	0845	S	1																			X
	SB-2-30	11-13-15	0905	S	1																			X
	SB-1-2	11-13-15	1000	S	1																			X
	SB-1-5.5	11-13-15	1005	S	1				X	X	X		X									X		
	SB-1-10	11-13-15	1010	S	1																			X
	SB-1-15	11-13-15	1015	S	1																			X

Relinquished by: (Signature) <u>Lita Freeman</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>11/13/15</u>	Time: <u>1100</u>
Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>11/13/15</u>	Time: <u>1840</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.  
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

09/01/13 Revision





# Calscience Environmental Laboratories, Inc.

SoCal Laboratory  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
(714) 895-5494

NorCal Service Center  
5063 Commercial Circle, Suite H  
Concord, CA 94520-8577  
(925) 689-9022

## CHAIN OF CUSTODY RECORD

Date 11-13-15  
Page 2 of 2

WO # / LAB USE ONLY  
  -

LABORATORY CLIENT: Basics Environmental  
 ADDRESS: 655 12th Street Ste 126  
 CITY: Oakland STATE: CA ZIP: 94607  
 TEL: 510 834-9099 E-MAIL: Basics Environmental@gmail.com  
 TURNAROUND TIME:  
 SAME DAY  24 HR  48 HR  72 HR  STANDARD 5 day  
 COELT EDF GLOBAL ID LOG CODE

CLIENT PROJECT NAME / NUMBER: P.O. NO.:  
 PROJECT CONTACT: SAMPLER(S): (PRINT)

### REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
Email report to Basics Environmental@gmail.com  
lita.freeman@gmail.com  
Lab Filter water samples within 24 hours (LVFT5)

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6C36) or (C6-C44)	TPH (Standard Solvent)	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010B/747X)	Cr(VI) [7196 or 7199 or 218.6]	LVFT5 Metals			
		DATE	TIME																						
	SB-1-20	11-13-15	1040	S	1																				
X	SB-2-W	11-13-15	1025	W	7	X			X	X	X		X									X			X

ICP# 3.7  
 GOOD CONDITION  
 HEAD SPACE ABSENT  
 DECHLORINATED IN LAB.  
 PRESERVATION  
 APPROPRIATE CONTAINERS  
 PRESERVED IN LAB  
 VOAS | O&G | METALS | OTHER

Relinquished by: (Signature) <u>Lita Freeman</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>11/13/15</u>	Time: <u>1100</u>
Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>11/13/15</u>	Time: <u>1840</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.  
 Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.



### Sample Receipt Checklist

Client Name: **Basics Environmental** Date and Time Received: **11/13/2015 7:17:57 PM**  
 Project Name: **Pleasanton, CA** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder No: **1511651** Matrix: Soil/Water Carrier: Benjamin Yslas (MAI Courier)

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: 3.7°C NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No   
 (Ice Type: WET ICE )

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1511623

**Report Created for:** Basics Environmental

655 12th Street, Suite 126  
Oakland, CA 94607

**Project Contact:** Donovan Tom

**Project P.O.:**

**Project Name:** 927 Main St.

**Project Received:** 11/13/2015

Analytical Report reviewed & approved for release on 11/20/2015 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*







## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** 927 Main St.  
**WorkOrder:** 1511623

### Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

### Analytical Qualifiers

F	sample was filtered upon arrival to the lab
b1	aqueous sample that contains greater than ~1 vol. % sediment
e2	diesel range compounds are significant; no recognizable pattern



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 17:20  
**Date Prepared:** 11/20/15  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1511623-002C	Water	11/13/2015 11:30	GC28	113217

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/20/2015 10:46
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/20/2015 10:46
Benzene	ND	0.50	1	11/20/2015 10:46
Bromobenzene	ND	0.50	1	11/20/2015 10:46
Bromochloromethane	ND	0.50	1	11/20/2015 10:46
Bromodichloromethane	1.3	0.50	1	11/20/2015 10:46
Bromoform	ND	0.50	1	11/20/2015 10:46
Bromomethane	ND	0.50	1	11/20/2015 10:46
2-Butanone (MEK)	ND	2.0	1	11/20/2015 10:46
t-Butyl alcohol (TBA)	ND	2.0	1	11/20/2015 10:46
n-Butyl benzene	ND	0.50	1	11/20/2015 10:46
sec-Butyl benzene	ND	0.50	1	11/20/2015 10:46
tert-Butyl benzene	ND	0.50	1	11/20/2015 10:46
Carbon Disulfide	ND	0.50	1	11/20/2015 10:46
Carbon Tetrachloride	ND	0.50	1	11/20/2015 10:46
Chlorobenzene	ND	0.50	1	11/20/2015 10:46
Chloroethane	ND	0.50	1	11/20/2015 10:46
Chloroform	5.5	0.50	1	11/20/2015 10:46
Chloromethane	ND	0.50	1	11/20/2015 10:46
2-Chlorotoluene	ND	0.50	1	11/20/2015 10:46
4-Chlorotoluene	ND	0.50	1	11/20/2015 10:46
Dibromochloromethane	ND	0.50	1	11/20/2015 10:46
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/20/2015 10:46
1,2-Dibromoethane (EDB)	ND	0.50	1	11/20/2015 10:46
Dibromomethane	ND	0.50	1	11/20/2015 10:46
1,2-Dichlorobenzene	ND	0.50	1	11/20/2015 10:46
1,3-Dichlorobenzene	ND	0.50	1	11/20/2015 10:46
1,4-Dichlorobenzene	ND	0.50	1	11/20/2015 10:46
Dichlorodifluoromethane	ND	0.50	1	11/20/2015 10:46
1,1-Dichloroethane	ND	0.50	1	11/20/2015 10:46
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/20/2015 10:46
1,1-Dichloroethene	ND	0.50	1	11/20/2015 10:46
cis-1,2-Dichloroethene	ND	0.50	1	11/20/2015 10:46
trans-1,2-Dichloroethene	ND	0.50	1	11/20/2015 10:46
1,2-Dichloropropane	ND	0.50	1	11/20/2015 10:46
1,3-Dichloropropane	ND	0.50	1	11/20/2015 10:46
2,2-Dichloropropane	ND	0.50	1	11/20/2015 10:46

(Cont.)





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 17:20  
**Date Prepared:** 11/20/15  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1511623-002C	Water	11/13/2015 11:30	GC28	113217

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/20/2015 10:46
cis-1,3-Dichloropropene	ND	0.50	1	11/20/2015 10:46
trans-1,3-Dichloropropene	ND	0.50	1	11/20/2015 10:46
Diisopropyl ether (DIPE)	ND	0.50	1	11/20/2015 10:46
Ethylbenzene	ND	0.50	1	11/20/2015 10:46
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/20/2015 10:46
Freon 113	ND	0.50	1	11/20/2015 10:46
Hexachlorobutadiene	ND	0.50	1	11/20/2015 10:46
Hexachloroethane	ND	0.50	1	11/20/2015 10:46
2-Hexanone	ND	0.50	1	11/20/2015 10:46
Isopropylbenzene	ND	0.50	1	11/20/2015 10:46
4-Isopropyl toluene	ND	0.50	1	11/20/2015 10:46
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/20/2015 10:46
Methylene chloride	ND	0.50	1	11/20/2015 10:46
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/20/2015 10:46
Naphthalene	ND	0.50	1	11/20/2015 10:46
n-Propyl benzene	ND	0.50	1	11/20/2015 10:46
Styrene	ND	0.50	1	11/20/2015 10:46
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/20/2015 10:46
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/20/2015 10:46
Tetrachloroethene	ND	0.50	1	11/20/2015 10:46
Toluene	ND	0.50	1	11/20/2015 10:46
1,2,3-Trichlorobenzene	ND	0.50	1	11/20/2015 10:46
1,2,4-Trichlorobenzene	ND	0.50	1	11/20/2015 10:46
1,1,1-Trichloroethane	ND	0.50	1	11/20/2015 10:46
1,1,2-Trichloroethane	ND	0.50	1	11/20/2015 10:46
Trichloroethene	ND	0.50	1	11/20/2015 10:46
Trichlorofluoromethane	ND	0.50	1	11/20/2015 10:46
1,2,3-Trichloropropane	ND	0.50	1	11/20/2015 10:46
1,2,4-Trimethylbenzene	ND	0.50	1	11/20/2015 10:46
1,3,5-Trimethylbenzene	ND	0.50	1	11/20/2015 10:46
Vinyl Chloride	ND	0.50	1	11/20/2015 10:46
Xylenes, Total	ND	0.50	1	11/20/2015 10:46

(Cont.)



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 17:20  
**Date Prepared:** 11/20/15  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1511623-002C	Water	11/13/2015 11:30	GC28	113217

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	95	70-130		11/20/2015 10:46
Toluene-d8	87	70-130		11/20/2015 10:46
4-BFB	78	70-130		11/20/2015 10:46

Analyst(s): KF

Analytical Comments: b1



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 17:20  
**Date Prepared:** 11/14/15  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1511623-002B	Water	11/13/2015 11:30	GC3	112891

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	11/14/2015 00:31
MTBE	ND	5.0	1	11/14/2015 00:31
Benzene	ND	0.50	1	11/14/2015 00:31
Toluene	ND	0.50	1	11/14/2015 00:31
Ethylbenzene	ND	0.50	1	11/14/2015 00:31
TPH(ss)	ND	50	1	11/14/2015 00:31
Xylenes	ND	0.50	1	11/14/2015 00:31

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	90	70-130	11/14/2015 00:31

**Analyst(s):** IA

**Analytical Comments:** b1



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 17:20  
**Date Prepared:** 11/13/15  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**Extraction Method:** SW3005  
**Analytical Method:** SW6020  
**Unit:** µg/L

## Dissolved LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1511623-002D	Water	11/13/2015 11:30	ICP-MS2	112893

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Cadmium	ND	F	0.25	1	11/16/2015 21:42
Chromium	<b>0.63</b>	F	0.50	1	11/16/2015 21:42
Lead	ND	F	0.50	1	11/16/2015 21:42
Nickel	<b>1.8</b>	F	0.50	1	11/16/2015 21:42
Zinc	ND	F	15	1	11/16/2015 21:42

**Analyst(s):** BBO

**Analytical Comments:** b1



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 11/13/15 17:20  
**Date Prepared:** 11/13/15  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

## Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1511623-002A	Water	11/13/2015 11:30	GC39A	112915

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	120	100	2	11/17/2015 19:19

Surrogates	REC (%)	Limits	Date Analyzed
C9	113	70-130	11/17/2015 19:19

**Analyst(s):** TK      **Analytical Comments:** e2,b1



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/20/15  
**Date Analyzed:** 11/20/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**BatchID:** 113217  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113217

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	7.15	0.50	10	-	72	54-140
Benzene	ND	8.03	0.50	10	-	80	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	24.5	2.0	40	-	61	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	8.68	0.50	10	-	87	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	8.44	0.50	10	-	84	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	7.11	0.50	10	-	71	66-125
1,1-Dichloroethene	ND	8.75	0.50	10	-	88	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

(Cont.)





## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/20/15  
**Date Analyzed:** 11/20/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**BatchID:** 113217  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113217

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	7.72	0.50	10	-	77	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	7.30	0.50	10	-	73	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	7.20	0.50	10	-	72	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	7.70	0.50	10	-	77	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	9.20	0.50	10	-	92	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/20/15  
**Date Analyzed:** 11/20/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**BatchID:** 113217  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-113217

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	23.4	23.1		25	93	92	70-130
Toluene-d8	22.3	22.0		25	89	88	70-130
4-BFB	1.94	1.96		2.5	77	79	70-130



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/13/15  
**Date Analyzed:** 11/13/15  
**Instrument:** GC3  
**Matrix:** Water  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**BatchID:** 112891  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112891  
 1511623-002BMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.7	40	60	-	100	70-130
MTBE	ND	9.28	5.0	10	-	93	70-130
Benzene	ND	9.52	0.50	10	-	95	70-130
Toluene	ND	9.63	0.50	10	-	96	70-130
Ethylbenzene	ND	9.77	0.50	10	-	98	70-130
Xylenes	ND	29.5	0.50	30	-	98	70-130

**Surrogate Recovery**

aaa-TFT	9.35	9.54		10	94	95	70-130
---------	------	------	--	----	----	----	--------

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.9	60.4	60	ND	103	101	70-130	2.45	20
MTBE	8.83	9.23	10	ND	88	92	70-130	4.50	20
Benzene	10.1	10.5	10	ND	101	105	70-130	4.10	20
Toluene	10.2	10.6	10	ND	101	104	70-130	3.35	20
Ethylbenzene	10.5	10.6	10	ND	105	106	70-130	1.08	20
Xylenes	31.6	31.9	30	ND	105	106	70-130	0.812	20

**Surrogate Recovery**

aaa-TFT	9.12	9.15	10		91	91	70-130	0	20
---------	------	------	----	--	----	----	--------	---	----



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/13/15  
**Date Analyzed:** 11/13/15 - 11/16/15  
**Instrument:** ICP-MS1, ICP-MS2  
**Matrix:** Water  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**BatchID:** 112893  
**Extraction Method:** SW3005  
**Analytical Method:** SW6020  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112893  
 1511601-003AMS/MSD

### QC Summary Report for Dissolved Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	49.4	0.25	50	-	99	85-115
Chromium	ND	48.6	0.50	50	-	97	85-115
Lead	ND	50.5	0.50	50	-	101	85-115
Nickel	ND	49.3	0.50	50	-	99	85-115
Zinc	ND	500	15	500	-	100	85-115

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	49.3	49.3	50	ND	99	99	70-130	0	20
Chromium	53.3	52.9	50	2.0	103	102	70-130	0.847	20
Lead	49.2	49.1	50	ND	98	97	70-130	0.244	20
Nickel	60.2	60.4	50	12	97	97	70-130	0	20
Zinc	545	548	500	44	100	101	70-130	0.695	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/13/15  
**Date Analyzed:** 11/15/15  
**Instrument:** GC9a  
**Matrix:** Water  
**Project:** 927 Main St.

**WorkOrder:** 1511623  
**BatchID:** 112915  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112915

### QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1020	50	1000	-	102	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
<b>Surrogate Recovery</b>							
C9	646	658		625	103	105	65-122



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 1511623**

**ClientCode: BEO**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

Donavan Tom  
Basics Environmental  
655 12th Street, Suite 126  
Oakland, CA 94607  
(510) 834-9099    FAX: (510) 834-9098

Email: basicsenvironmental@gmail.com  
cc/3rd Party:  
PO:  
ProjectNo: 927 Main St.

**Bill to:**

Accounts Payable  
Basics Environmental  
655 12th Street, Suite 126  
Oakland, CA 94607

**Requested TAT: 5 days;**

**Date Received: 11/13/2015**

**Date Printed: 11/13/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1511623-002	SB-1-W	Water	11/13/2015 11:30	<input type="checkbox"/>	C	B	D	D	A								

**Test Legend:**

1	8260B_W	2	G-MBTEX_W	3	LUFTMS_6020 DISS	4	PRDISSOLVED
5	TPH(D)_W	6		7		8	
9		10		11		12	

**Prepared by: Lindsay Diesta**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.





## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1511623

**Project:** 927 Main St.

**Client Contact:** Donovan Tom

**Date Received:** 11/13/2015

**Comments:**

**Contact's Email:** basicsenvironmental@gmail.com

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511623-001A	SB-1-30	Soil		1	Acetate Liner	<input type="checkbox"/>	11/13/2015 10:45			<input checked="" type="checkbox"/>	
1511623-002A	SB-1-W	Water	SW8015B (Diesel)	2	aVOA	<input type="checkbox"/>	11/13/2015 11:30	5 days	5%+	<input type="checkbox"/>	
1511623-002B	SB-1-W	Water	SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2>	2	VOA w/ HCl	<input type="checkbox"/>	11/13/2015 11:30	5 days	5%+	<input type="checkbox"/>	
1511623-002C	SB-1-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	<input type="checkbox"/>	11/13/2015 11:30	5 days	5%+	<input type="checkbox"/>	
1511623-002D	SB-1-W	Water	SW6020 (LUFT) (Dissolved-Lab Filtered)	1	250mL HDPE, unprsv.	<input type="checkbox"/>	11/13/2015 11:30	5 days	5%+	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.





### Sample Receipt Checklist

Client Name: **Basics Environmental** Date and Time Received: **11/13/2015 5:20:15 PM**  
 Project Name: **927 Main St.** LogIn Reviewed by: **Lindsay Diesta**  
 WorkOrder No: **1511623** Matrix: Soil/Water Carrier: Randy Glen

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: 3.8°C NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

(Ice Type: WET ICE )

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:

## **Appendix C**

### Site Photographs



Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

**Photograph: 1**

**Description:**

Photo depicts the south elevation of the on-site building.



**Photograph: 2**

**Description:**

Photo depicts area of former canopy on south adjoining property in driveway from Main Street.



Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

**Photograph: 3**

**Description:**

Photo depicts sampling at boring SB-3 (south of on-site building).



**Photograph: 4**

**Description:**

Photo depicts sampling at boring SB-4.





Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

**Photograph: 5**

**Description:**

Photo depicts sampling at boring SB-5 in area of former canopy on the Site.



**Photograph: 6**

**Description:**

Photo depicts preparation for soil gas sampling at sampling location SB-3.



Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

**Photograph: 7**

**Description:**

Photo depicts groundwater sampling boring SB-5.



**Photograph: 8**

**Description:**

Photo depicts backfilling of boring SB-5.



**Appendix D**

Zone 7 Soil Boring Permit and  
City of Pleasanton Encroachment Permit





# APPLICATION FOR DRILLING PERMIT

Zone 7 Water Agency  
100 North Canyons Parkway  
Livermore, CA 94551  
(925) 454-5000  
wellpermits@zone7water.com

For Office Use						
Permit No.: 2016083	Permit Date: 7/13/16	Receipt No.: 719788	Well No.: N/A			
For Applicant to Complete						
Property Owner: Bradley A & Sandra L Hirst Trust			Applicant: Environmental Risk Assessors			
Address: 4480 Black Ave, Suite L			Address: 1420 East Roseville Parkway, #140-262			
City, State, Zip: Pleasanton, CA 94586			City, State, Zip: Roseville, CA 95861			
Phone: 925-484-3636		Email: brad@equityenterprises.net		Phone: 916-877-9897		Email: fitafreeman@gmail.com
Site	Project Location: 927 Main Street, Pleasanton, CA			Assessor's Parcel Number: 946-3370-022-00		
				Latitude: 37.685986		Longitude: -121.87388
Project Type	<input type="checkbox"/> Well Construction (\$397/well) <input type="checkbox"/> Well Destruction (\$397/well) <u>Proposed or Previous Well Use:</u>			<input checked="" type="checkbox"/> Exploratory Borings (\$265/site) <u>Type of Investigation:</u>		<input type="checkbox"/> Remediation System (\$265/site) <u>Type of System:</u>
	<input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Dewatering <input type="checkbox"/> Cathodic Protection <input type="checkbox"/> Industrial <input type="checkbox"/> Geothermal <input type="checkbox"/> Monitoring <input type="checkbox"/> Inclinator <input type="checkbox"/> Other: _____			<input type="checkbox"/> Geotechnical <input checked="" type="checkbox"/> Environmental <input type="checkbox"/> Soil Vapor <input type="checkbox"/> Other: _____		<input type="checkbox"/> Groundwater Extraction <input type="checkbox"/> Vapor Extraction <input type="checkbox"/> In-Situ Treatment <input type="checkbox"/> Other: _____
Drilling	<u>Drilling Method</u> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other: _____			Drilling Company: Cascade Drilling		
				Driller's C57 License No.: 938110		
Well Specs.	Owner Well ID	Borehole Diameter	Casing Material	Casing Diameter	Surface Seal Depth	Total Well Depth
For Well Destruction Projects						
Destruction Method: <input type="checkbox"/> Perforate (Mills Knife) <input type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Other: _____						
For Exploratory Boring Projects						
Number of Borings: 3		Borehole Diameter: 1.5 inches	Maximum Depth: 40 feet		Estimated Depth-to-Water: 30 feet	
For All Projects						
Estimated Starting Date: 7-22-2016			Estimated Completion Date: 7-22-2016			
* Please attach a Site Plan including all proposed drilling locations, existing wells, significant site features, and adjacent streets *						

I hereby agree to comply with all requirements of this permit (see Page 2) and Alameda County Ordinance No. O-2015-20.

Applicants Signature: Fitafreeman Date: 7-11-16

**For Office Use**

Approved: Wyman Hong Date: 7/13/16

## Permit Conditions

(Circled Permit Requirements Apply)

### A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller. If the report is submitted directly to DWR by the driller electronically, a copy of the report must be submitted to Zone 7.
3. Permit is void if project not begun within 90 days of approval date.
4. Request an inspection by email ([wellpermits@zone7water.com](mailto:wellpermits@zone7water.com)) at least 24 hours before the start of work.

### B. WATER SUPPLY WELLS

1. Minimum surface seal diameter is four inches greater than the well casing diameter and six inches for public wells.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

### C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

### D. CONTAMINATION OR ENVIRONMENTAL STUDIES

1. Submit to Zone 7 within 60 days after completion of permitted work all soil and water laboratory analytical results.

### E. GEOTECHNICAL

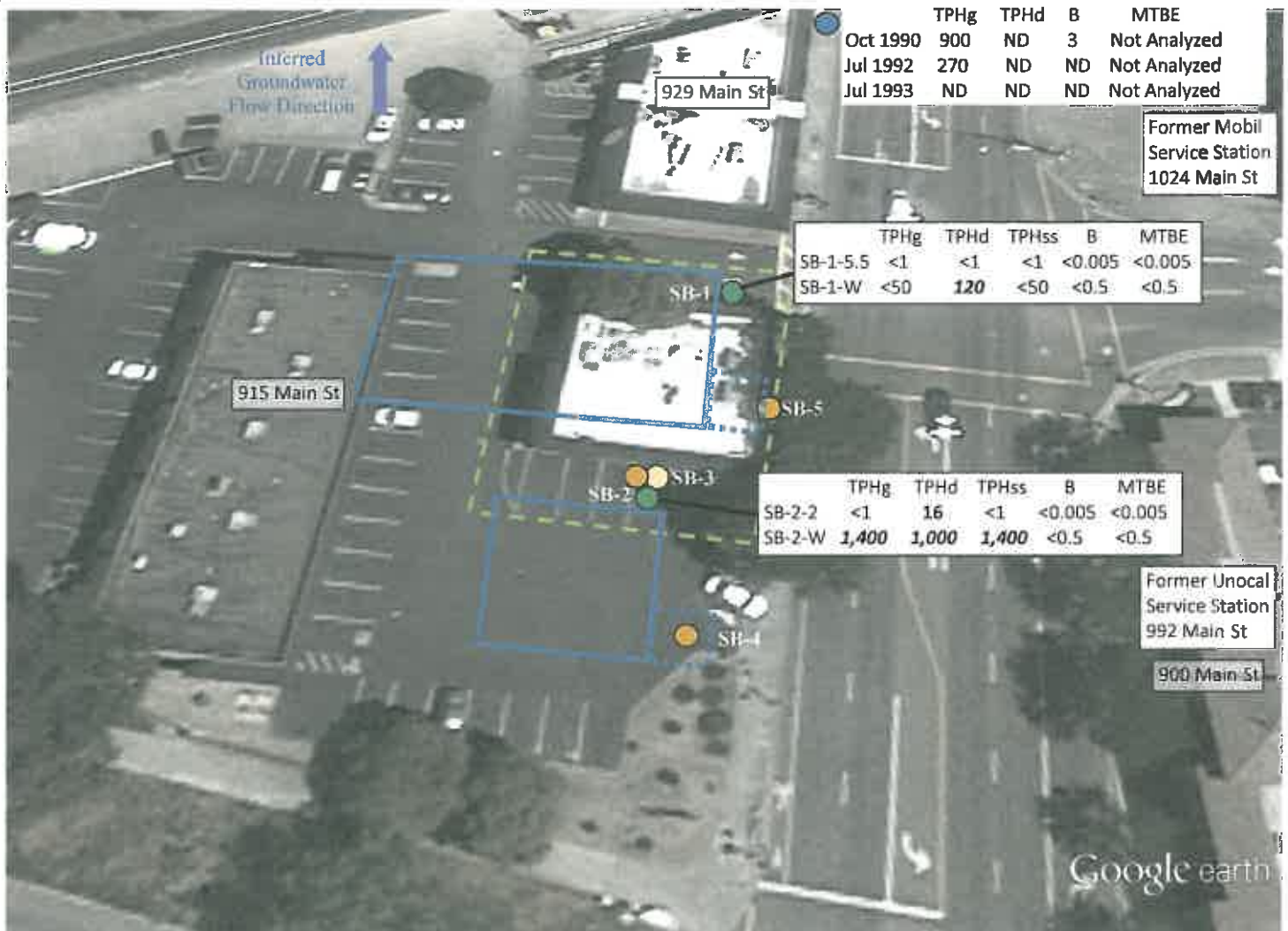
1. Backfill borehole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

### F. CATHODIC

1. Fill hole above anode zone with concrete placed by tremie.

### G. WELL DESTRUCTION. See attached.

### H. SPECIAL CONDITIONS. See attached.



TPHg = Total Petroleum Hydrocarbons quantified as gasoline

TPHd = TPH quantified as diesel

TPHss = TPH quantified as Stoddard solvent

B = Benzene

MTBE = Methyl tert-butyl ether

SB-1-5.5 = Soil sample from boring SB-1 at 5.0-5.5 depth interval

SB-1-W = Groundwater sample from boring SB-1

<1 = Noted analyte not detected at concentration at or above stated laboratory reporting limit

120 = Noted analyte detected at stated concentration

	TPHg	TPHd	TPHss	B	MTBE
SB-1-5.5	<1	<1	<1	<0.005	<0.005
SB-1-W	<50	120	<50	<0.5	<0.5

units: soil=mg/kg/GW=µg/L  
mg/kg = milligrams per kilogram  
µg/L=micrograms per liter

- Property Boundary (approximate)
- Former Building Footprint (approximate)
- ..... Former Dispenser Canopy Location (approximate)
- Sampling Location (ERA 2015)
- Proposed Soil/Groundwater Sampling Location
- Proposed Soil Gas Sampling Location



0 ————— 75  
Scale (feet, approximate)



**Site Plan**

**SUPPLEMENTAL SITE INVESTIGATION**

927 Main Street, Pleasanton, California

PN: 01-2016-1300-001

Date: July 7, 2016

EP: Lita Freeman

**Figure 2**



# RECEIPT

DATE 7/12/10 No. 719788RECEIVED FROM Environmental Risk Assessors Two hundred and sixty five 00 DOLLARSFOR RENT Drilling Permit # 2010083

ACCOUNT	
PAYMENT	<u>265.00</u>
BAL. DUE	

- CASH
- CHECK
- MONEY ORDER
- CREDIT CARD

FROM \_\_\_\_\_ TO zone 7  
BY J. WalterA 2701  
T-6800 46802



# ENCROACHMENT PERMIT

*-Inspections must be requested 24 Hours prior to Starting Work-*

Call (925) 931 - 5680

<b>Project Address</b> 927 MAIN ST PLEASANTON, CA 94566	<b>Parcel #</b> 946 337002200	<b>Permit #</b> E16-0533	<b>Applicant</b> CASCADE DRILLING L P
---	----------------------------------	-----------------------------	--

**Project:** encroachment permit for soil boring and temporary traffic control

<b>Owner</b> HIRST BRADLEY A & SANDRA L TRS & HIRST BRADLE ETAL 4460 BLACK AVE, L, PLEASANTON CA 94566	<b>Contractor</b> CASCADE DRILLING L P P O BOX 1184 WOODINVILLE, WA 98072 License #: 938110	4254859802 <b>Expires:</b> 9/30/2017
--	---	---

**Scope of Work**  
one directional boring to collect soil and groundwater samples as required by the Alameda County Env. Health Dept.  
Contact: Ralph McGahey, Cascade Drilling 510-478-0858

**Issuance Comments**

TCP approved by Erik K.

**Total Fees: \$120.00**

**Total Payments: \$120.00**

**CALL PUBLIC WORKS  
INSPECTION 24 HRS  
PRIOR TO START OF  
WORK (925) 931-5650**

All work to be performed to City of Pleasanton Standard Details and Specifications. This permit is issued pursuant to all provisions of the City of Pleasanton Municipal Code, Chapter 13.04, Encroachment.

Issued By: Sidi Cruz 

Date of Issue: 7/21/2016

Applicant/Agent: 

Building: (925) 931-5300 Planning: (925) 931-5600 Engineering: (925) 931-5650 Construction Insp.: (925) 931-5680



CONDITIONS FOR ENCROACHMENT PERMIT

1.  Work area shall be clean at the end of each working day. No construction materials shall be stored in the public right of way (street or sidewalk) overnight. City of Pleasanton streets shall not be used for staging areas. If excessive debris accumulates to the dissatisfaction of the homeowners, business owners or the City due to construction activities, then the contractor shall be required to clean roadway and sidewalk areas during working hours. All cleaning methods used for construction shall conform to the Urban Runoff Program.
2.  Work area shall be safe for vehicular, bicycle and pedestrian traffic. All driveways and other entrances to homes or businesses are to remain accessible at all times or other provisions for access shall be arranged.
3.  Landscaping damaged during the project shall be repaired to the owner's satisfaction. In the case of City owned and maintained landscaping, contact the Parks Department at (925) 931-5565.
4.  Traffic control shall conform to California Manual on Uniform Traffic Control Devices & Caltrans standards.
5.  Contractor to submit site specific traffic control plan. (Traffic control plan must be received 48 hours prior to lane closure and approved before closure).
6.  Concrete to be removed shall be removed to the closest score mark outside the work area. All replacement concrete shall be doweled to existing concrete per City Standard Detail.
7.  Removal of 12" of pavement is required where gutter is to be removed. 12" slot shall be re-paved with Asphalt Concrete deep lift after new gutter is in place.
8.  Pipe or conduit that is installed in a trench over 5 feet in depth shall be shored in accordance with applicable Cal/OSHA regulations.
9.  When permission is granted for directional boring, existing utilities shall be "potholed" to establish bore profile.
10.  When permission is granted for directional boring in a landscaped area, the minimum bore depth shall be 42 inches, measured from the top of curb and not from the top of the landscape mound.
11.  Structural trench backfill shall consist of:
  - A) Standard trenches: 3" min. AC on 10" of CTB (2 Sack mix) for minor streets.
  - B) Standard trenches: 3" min. AC on 15" of CTB (2-sack mix) for major streets.
  - C) Rock wheel trenching: 2" of AC on flowable concrete trench backfill. (City approved mix)
  - D) Backfill in sidewalk and landscape areas shall conform to City Specifications.
12.  Permits may be required from other agencies having jurisdiction in area.
13.  Haul route per attached sheet.
14.  Permittee to call utility locating service (USA) at 1-800-642-2444 48 hours prior to beginning of work.
15.  Work hours are from 8:00 a.m. to 5:00 p.m. Monday through Friday. Weekends, holidays and after-hours are only allowed on a case by case basis and upon written permission with 48-hours advance notification. (All overtime is subject to reimbursement).
16.  The City Engineer or his authorized representative will be the sole judge of the quality of work, the interpretation of these conditions, and the interpretations of City specifications and/or City Details applicable to the project.
17.  Contractor is responsible for removal of all USA marking.
18.  Permittee shall begin work within 90 days from date of issuance of permit and shall complete work within 120 days from issuance of permit unless otherwise specified. If work has not begun accordingly or work is not completed within the time frame, the permit shall become void unless an extension has been granted by the City Engineer. The permittee shall reimburse the city for all expenses in restoring the right-of-way or watercourse.

**PUBLIC WORKS**

P. O. Box 520, Pleasanton, CA 94566-0802

Administration 200 Old Bernal Rd (925) 931-5650 (925) 931-5479	Engineering 200 Old Bernal Rd (925) 931-5650 (925) 931-5479	Traffic 200 Old Bernal Rd. (925) 931-5650 (925) 931-5479	Inspection 157 Main St. (925) 931-5680 (925) 931-5484	Operation Service Center 3333 Busch Road (925) 931-5500 (925) 931-5595
---	--	---	--	---



Legend

 Site Boundaries (approximate)

1 Sidewalk Closed Sign - R9-11a

2 Sidewalk Closed Ahead Sign - R9-11



0 ————— 100

Scale (feet, approximate)

**REVIEWED**  
 CITY OF PLEASANTON  
 ENGINEERING DEPT.  
 By: EL  
 Date: 7-20-16



**ENGROACHMENT PERMIT**

PN: 01-2016-1300-001

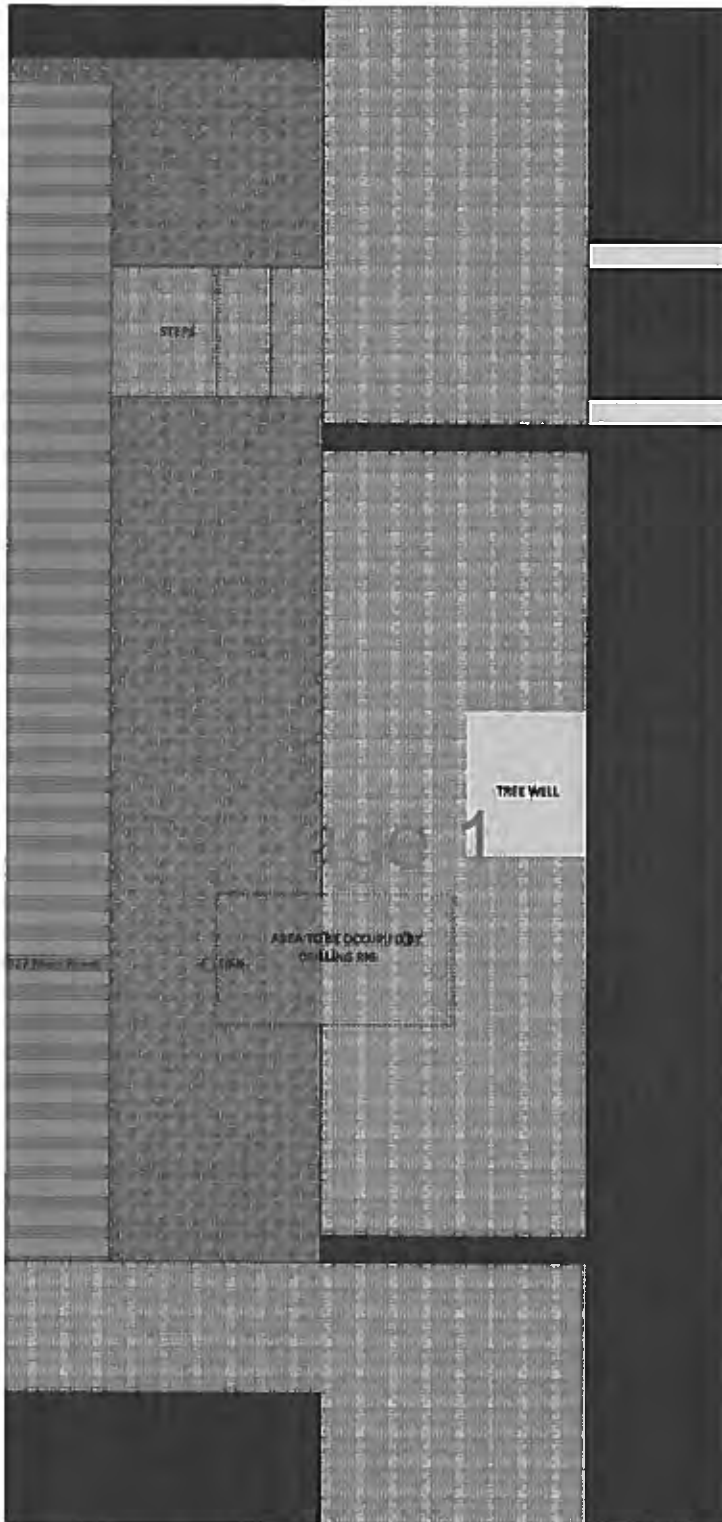
Date: July 18, 2016

**SUPPLEMENTAL SITE ASSESSMENT**

EP: Lita Freeman

927 Main Street, Pleasanton, California

**Figure 1**



**Legend**

Concrete	Building	Crosswalk	North
Asphalt Pavement	Landscaped Area	Sidewalk Closed Sign	Scale (feet)

○ SB-5 Soil Boring Location (approximate)



**ENGROACHMENT PERMIT**

PN: 01-2016-1300-001

Date: July 18, 2016

**SUPPLEMENTAL SITE ASSESSMENT**

EP: Lita Freeman

927 Main Street, Pleasanton, California

**Figure 2**

Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

**Photograph: 1**

**Description:**

Photo depicts the on-site building. Sidewalk on east side of building (to right in photo) will be closed during drilling. View to north.



**Photograph: 2**

**Description:**

Photo depicts sampling location SB-5 (at white arrow) on eastern side of on-site building. View to north.





Photographic Log  
927 Main Street  
Pleasanton, California 94566  
ERA Project No. 01-2016-1300-001

**Photograph: 3**

**Description:**

Photo depicts sampling location SB-5 (at white arrow). Crosswalk across Main Street on left in photo. View to south.



**Photograph: 4**

**Description:**

Photo depicts sampling location SB-5.



**Appendix E**

Soil Boring Logs

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring SB-3

Boring location: See Figure 2

Logged by:

Date started: 8/5/16

Date finished: 8/5/16

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Arturo-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
1						Asphalt (6 inches) / Baserock (4 inches)						
2					GW	Sandy Gravel (GW), Brown (7.5 YR 4/6), fine-grained to coarse-grained gravel, fine-grained to coarse-grained sand, sub-angular to sub-rounded gravel, dry						
3												
4	0.0	X										
5		X										
6												
7												
8	0.0											
9												
10		X										
11												
12	0.0											
13												
14					CL/	Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderate plasticity, stiff, dry						
15		X			CH							
16	0.0											
17												
18												
19												
20		X										
21												
22												
23												
24												
25	0.0	X										
26												
27												
28						-moist at 28 feet bgs						
29												
30	2.5	X										

Boring terminated at a depth of 40 feet below ground surface. Boring backfilled with cement grout.  
Groundwater encountered at a depth of 38 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2016-1300-001

Figure: C-3

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-3

PAGE 2 OF 2

Boring location: See Figure 2

Logged by:

Date started: 8/5/16

Date finished: 8/5/16

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Arturo-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
31						-color change to green with petroleum hydrocarbon odor at 31 feet bgs						
32	1.8	X										
33						-color change to brown (7.5 YR 4/6) at 33 feet bgs						
34	0.0					-color change to green with petroleum hydrocarbon odor from 34 feet bgs, very moist at 34 feet bgs						
35		X										
36	0.0	X				-color change to brown (7.5 YR 4/6) at 36 feet bgs						
37	0.0											
38					▽	-wet at 38 feet bgs						
39												
40	Bottom of Boring = 40 feet											
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 40 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of 38 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2016-1300-001

Figure: C-3

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-4

PAGE 1 OF 2

Boring location: See Figure 2

Logged by:

Date started: 7/22/16

Date finished: 7/22/16

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Ricky-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
1						Asphalt (6 inches) / Baserock (4 inches)						
2					GW	Sandy Gravel (GW), Brown (7.5 YR 4/6), fine-grained to coarse-grained gravel, fine-grained to coarse-grained sand, sub-angular to sub-rounded gravel, dry						
3	0.0	☒										
4												
5	0.0	☒										
6												
7	0.0	☒										
8					CL/CH	Silty Clay (CL/CH), Dark Reddish Brown (2.5 YR 2.5/4), moderate plasticity, stiff, dry						
9												
10		☒										
11												
12	0.0											
13												
14												
15		☒										
16	0.0											
17												
18												
19												
20	0.0	☒										
21												
22												
23												
24												
25	0.0	☒										
26												
27												
28					-moist at 28 feet bgs							
29												
30												

Boring terminated at a depth of 40 feet below ground surface. Boring backfilled with cement grout.  
Groundwater encountered at a depth of 38 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2016-1300-001

Figure: C-4

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-4

PAGE 2 OF 2

Boring location: See Figure 2

Logged by:

Date started: 7/22/16

Date finished: 7/22/16

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Ricky-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
31												
32												
33												
34												
35												
36												
37												
38					▽							
39						Sandy Gravel (GW), Dark Reddish Brown (2.5 YR 2.5/4), fine-grained to to coarse-grained gravel, fine-grained to coarse-grained sand, rounded gravel, wet at 38 feet bgs						
40						Bottom of Boring = 40 feet						
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 40 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of 38 feet during drilling.



Environmental Risk Assessors

Project No.:  
01-2016-1300-001

Figure: C-4



PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-5

PAGE 1 OF 2

Boring location: See Figure 2

Logged by:

Date started: 8/5/16

Date finished: 8/5/16

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Arturo-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: -- feet <sup>2</sup>						
1						Landscaping top soil						
2					CL/	Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderate plasticity, stiff, dry						
3					CH							
4		X										
5	0.0											
6												
7												
8	0.0	X										
9												
10		X										
11												
12	0.0											
13												
14												
15		X										
16	0.0											
17												
18												
19												
20	0.0	X										
21												
22												
23												
24	0.0											
25		X										
26												
27												
28	0.0											
29						-moist at 29 feet bgs						
30												

Boring terminated at a depth of 44 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of .37 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2016-1300-001

Figure: C-5

PROJECT: 927 Main Street, Pleasanton, California

# Log of Boring

SB-5

PAGE 2 OF 2

Boring location: See Figure 2

Logged by:

Date started: 8/5/16

Date finished: 8/5/16

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Arturo-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
Ground Surface Elevation: -- feet <sup>2</sup>												
31						-color change to green with petroleum hydrocarbon odor at 31 feet bgs						
32						-color change to brown (7.5 YR 4/6) at 32 feet bgs						
33												
34						-color change to green with petroleum hydrocarbon odor at 34 feet bgs, very moist at 35 feet bgs						
35												
36	1.2					-some fine-grained sand at 35 feet bgs to 35.5 feet bgs						
37						-sand and gravel at 37 feet bgs to 37.5 feet bgs, wet at 37 feet bgs						
38												
39	2.7					-color change to brown (7.5 YR 4/6) at 39 feet bgs						
40	83.9											
41												
42												
43					GW	Sandy Gravel (GW), Brown (7.5 YR 4/6), fine-grained to coarse-grained gravel, fine-grained to coarse-grained sand, sub-angular to sub-rounded gravel, saturated						
44						Bottom of Boring = 44 feet						
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 44 feet below ground surface. Boring backfilled with cement grout. Groundwater encountered at a depth of 37 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2016-1300-001

Figure: C-5

## **Appendix F**

Laboratory Analytical Report and  
Chain-of-Custody Documentation



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

30 September 2016

Lita Freeman  
Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville, CA 95661  
RE: Main Street Property

Enclosed are the results of analyses for samples received by the laboratory on 07/23/16 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager



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Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
09/30/16 16:49

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-4-3	T161673-01	Soil	07/22/16 10:10	07/23/16 08:00
SB-4-7.5	T161673-03	Soil	07/22/16 10:25	07/23/16 08:00
SB-4-GW	T161673-09	Water	07/22/16 12:00	07/23/16 08:00

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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949.297.5020 Phone  
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Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
09/30/16 16:49

**DETECTIONS SUMMARY**

**Sample ID:** SB-4-3

**Laboratory ID:** T161673-01

No Results Detected

**Sample ID:** SB-4-7.5

**Laboratory ID:** T161673-03

No Results Detected

**Sample ID:** SB-4-GW

**Laboratory ID:** T161673-09

No Results Detected

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Rose Fasheh, Project Manager





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Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 09/30/16 16:49
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**SB-4-3**  
**T161673-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6072529	07/25/16	07/26/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.7 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6072545	07/25/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		71.1 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6072528	07/25/16	07/25/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		112 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	95.7-135		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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**SB-4-7.5**  
**T161673-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6072529	07/25/16	07/26/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		56.3 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6072545	07/25/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		76.7 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6072528	07/25/16	07/26/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %	85.5-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	95.7-135		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5020 Phone  
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**SB-4-GW**  
**T161673-09 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	6072536	07/25/16	07/26/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		122 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	50	ug/l	1	6072547	07/25/16	07/27/16	EPA 8015C	
C13-C28 (DRO)	ND	50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	100	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		86.0 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	1.0	ug/l	1	6072535	07/25/16	07/25/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		110 %	88.8-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.6 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		142 %	81.1-136		"	"	"	"	S-GC

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Rose Fasheh, Project Manager



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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 09/30/16 16:49
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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072529 - EPA 5030 GC**

<b>Blank (6072529-BLK1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	105		"	100		105	65-135			
<b>LCS (6072529-BS1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	11100	500	ug/kg	10900		102	75-125			
Surrogate: 4-Bromofluorobenzene	83.7		"	100		83.7	65-135			
<b>LCS Dup (6072529-BSD1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	10400	500	ug/kg	11000		94.1	75-125	7.29	20	
Surrogate: 4-Bromofluorobenzene	69.6		"	100		69.6	65-135			

**Batch 6072536 - EPA 5030 GC**

<b>Blank (6072536-BLK1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	107		"	100		107	65-135			
<b>LCS (6072536-BS1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	5750	50	ug/l	5500		105	75-125			
Surrogate: 4-Bromofluorobenzene	98.6		"	100		98.6	65-135			
<b>LCS Dup (6072536-BSD1)</b>		Prepared: 07/25/16 Analyzed: 07/26/16								
C6-C12 (GRO)	6000	50	ug/l	5500		109	75-125	4.16	20	
Surrogate: 4-Bromofluorobenzene	86.5		"	100		86.5	65-135			

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 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
 09/30/16 16:49

**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072545 - EPA 3550B GC**

**Blank (6072545-BLK1)**

Prepared: 07/25/16 Analyzed: 07/27/16

Stoddard Solvent	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	80.7		"	99.1		81.4	65-135			

**LCS (6072545-BS1)**

Prepared: 07/25/16 Analyzed: 07/27/16

C13-C28 (DRO)	470	10	mg/kg	498		94.2	75-125			
Surrogate: <i>p</i> -Terphenyl	94.0		"	99.5		94.5	65-135			

**Matrix Spike (6072545-MS1)**

Source: T161613-09

Prepared: 07/25/16 Analyzed: 07/27/16

C13-C28 (DRO)	440	10	mg/kg	492	ND	90.0	75-125			
Surrogate: <i>p</i> -Terphenyl	78.6		"	98.4		79.9	65-135			

**Matrix Spike Dup (6072545-MSD1)**

Source: T161613-09

Prepared: 07/25/16 Analyzed: 07/27/16

C13-C28 (DRO)	480	10	mg/kg	494	ND	96.8	75-125	7.60	20	
Surrogate: <i>p</i> -Terphenyl	80.3		"	98.7		81.3	65-135			

**Batch 6072547 - EPA 3510C GC**

**Blank (6072547-BLK1)**

Prepared: 07/25/16 Analyzed: 07/27/16

Stoddard Solvent	ND	500	ug/l							
C13-C28 (DRO)	ND	500	"							
C29-C40 (MORO)	ND	500	"							
Surrogate: <i>p</i> -Terphenyl	3230		"	4000		80.7	65-135			

**LCS (6072547-BS1)**

Prepared: 07/25/16 Analyzed: 07/27/16

C13-C28 (DRO)	17300	500	ug/l	20000		86.7	75-125			
Surrogate: <i>p</i> -Terphenyl	3590		"	4000		89.8	65-135			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 09/30/16 16:49
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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 6072547 - EPA 3510C GC**

**LCS Dup (6072547-BSD1)**

Prepared: 07/25/16 Analyzed: 07/27/16

C13-C28 (DRO)	17200	500	ug/l	20000		85.8	75-125	0.998	20	
Surrogate: <i>p</i> -Terphenyl	3390		"	4000		84.8	65-135			

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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
 09/30/16 16:49

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072528 - EPA 5030 GCMS**

**Blank (6072528-BLK1)**

Prepared & Analyzed: 07/25/16

Naphthalene	ND	5.0	ug/kg							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: Toluene-d8	44.8		"	39.8		112	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.5		"	39.8		109	81.2-123			
Surrogate: Dibromofluoromethane	37.8		"	39.8		94.9	95.7-135			S-GC

**LCS (6072528-BS1)**

Prepared & Analyzed: 07/25/16

Benzene	85.4	5.0	ug/kg	99.4		86.0	75-125			
Toluene	91.8	5.0	"	99.4		92.4	75-125			
Surrogate: Toluene-d8	41.0		"	39.8		103	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.1		"	39.8		108	81.2-123			
Surrogate: Dibromofluoromethane	44.9		"	39.8		113	95.7-135			

**LCS Dup (6072528-BSD1)**

Prepared & Analyzed: 07/25/16

Benzene	83.7	5.0	ug/kg	99.6		84.0	75-125	2.04	20	
Toluene	91.9	5.0	"	99.6		92.2	75-125	0.0365	20	
Surrogate: Toluene-d8	40.3		"	39.8		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.9		"	39.8		110	81.2-123			
Surrogate: Dibromofluoromethane	45.9		"	39.8		115	95.7-135			

**Batch 6072535 - EPA 5030 GCMS**

**Blank (6072535-BLK1)**

Prepared & Analyzed: 07/25/16

Naphthalene	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Surrogate: Toluene-d8	8.52		"	8.00		106	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.41		"	8.00		92.6	83.5-119			
Surrogate: Dibromofluoromethane	10.7		"	8.00		134	81.1-136			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 09/30/16 16:49
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6072535 - EPA 5030 GCMS**

**LCS (6072535-BS1)**

Prepared & Analyzed: 07/25/16

Benzene	21.2	0.50	ug/l	20.0		106	75-125			
Toluene	17.8	0.50	"	20.0		89.0	75-125			
Surrogate: Toluene-d8	8.08		"	8.00		101	88.8-117			
Surrogate: 4-Bromofluorobenzene	6.98		"	8.00		87.2	83.5-119			
Surrogate: Dibromofluoromethane	12.6		"	8.00		158	81.1-136			S-GC

**LCS Dup (6072535-BSD1)**

Prepared & Analyzed: 07/25/16

Benzene	22.6	0.50	ug/l	20.0		113	75-125	6.30	20	
Toluene	19.1	0.50	"	20.0		95.6	75-125	7.20	20	
Surrogate: Toluene-d8	8.01		"	8.00		100	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.21		"	8.00		90.1	83.5-119			
Surrogate: Dibromofluoromethane	12.0		"	8.00		150	81.1-136			S-GC

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Rose Fasheh, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
09/30/16 16:49

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Rose Fasheh, Project Manager

**Chain of Custody Record**

Client: ENVIRONMENTAL RISK ASSESSORS Date: 7-22-16 Page: 1 Of       
 Address: 1420 E. Roseville Parkway #140-762, Roseville CA 95661 Project Name: Main Street Roadway  
 Phone: 916 677 9897 Fax:      Collector: L. Fiszman Client Project #: DL-2015-1300-001  
 Project Manager: Lita Fiszman Batch #: 7161673 EDE #:     

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 - Naphthalene, BTEX	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) motor oil	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	TPH Stocked Solvent	Hold	Laboratory ID #	Comments/Preservative	Total # of containers
SB-4-3	7-22-16	1010	Soil	tubs	X					X	X						01		1
SB-4-5	7-22-16	1020	Soil	tubs						X	X						02		1
SB-4-7.5	7-22-16	1025	Soil	tubs	X					X	X						03		1
SB-4-8	7-22-16	1025	Soil	tubs						X	X						04		1
SB-4-10	7-22-16	1040	Soil	tubs						X	X						05		1
SB-4-15	7-22-16	1050	Soil	tubs						X	X						06		1
SB-4-20	7-22-16	1100	Soil	tubs						X	X						07		1
SB-4-25	7-22-16	1110	Soil	tubs						X	X						08		1
SB-4-GW	7-22-16	1200	GW	VOAs	X						X						09		1
Relinquished by: (signature) <u>Lita Fiszman</u> Date / Time <u>7-22-16 18:30</u> Received by: (signature) <u>Lita Fiszman</u> Date / Time <u>7-22-16 18:30</u>					Total # of containers <u>17</u>					Chain of Custody seals Y/N/NA <u>    </u>					Notes <u>Reports to: Lita Fiszman@gmail.com</u>				
Relinquished by: (signature) <u>Lita Fiszman</u> Date / Time <u>7/23/16 8:00</u> Received by: (signature) <u>Lita Fiszman</u> Date / Time <u>7/23/16 8:00</u>					Total # of containers <u>4,2</u>					Chain of Custody seals Y/N/NA <u>    </u>					Received good condition/cold <u>    </u>				

Sample disposal instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_ Turn around time: 5 day **COC 141154**

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T161673  
 Client Name: Environmental Risk Assessment Project: Main Street property  
 Delivered by:  Client  SunStar Courier  GSO  FedEx  Other  
 If Courier, Received by: [Signature] Date/Time Courier Received: \_\_\_\_\_  
 Lab Received by: Kyle Date/Time Lab Received: 7/23/16 8:00  
 Total number of coolers received: 1

Temperature: Cooler #1	4.4 °C +/- the CF (- 0.2°C) =	4.2 °C	corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>If NO:</b>			
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No →	<b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No →	<b>Complete Non-Conformance Sheet</b>

Custody seals intact on cooler/sample  Yes  No\*  N/A  
 Sample containers intact  Yes  No\*  
 Sample labels match Chain of Custody IDs  Yes  No\*  
 Total number of containers received match COC  Yes  No\*  
 Proper containers received for analyses requested on COC  Yes  No\*  
 Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A  
 Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*  
 \* Complete Non-Conformance Receiving Sheet if checked  
 Cooler/Sample Review - Initials and date: GM

**Comments:**  
 \_\_\_\_\_  
 \_\_\_\_\_

**WORK ORDER**

**T161673**

**Client: Environmental Risk Assessors**

**Project Manager: Rose Fasheh**

**Project: Main Street Property**

**Project Number: 01-2016-1300-001**

**Report To:**

Environmental Risk Assessors  
 Lita Freeman  
 1420 E Roseville Pkwy  
 Roseville, CA 95661

Date Due: 07/28/16 17:00 (3 day TAT)

Received By: Kyler Mondello

Date Received: 07/23/16 08:00

Logged In By: Kyler Mondello

Date Logged In: 07/23/16 11:41

Samples Received at: 4.2°C  
 Custody Seals Yes Received On Ice Yes  
 Containers Intact Yes  
 COC/Labels Agree Yes  
 Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
<b>T161673-01 SB-4-3 [Soil] Sampled 07/22/16 10:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	07/28/16 15:00	3	08/05/16 10:10	+Stoddard solvent
8015 m Gas Purge	07/28/16 15:00	3	08/05/16 10:10	
8260 BTEX/OXY	07/28/16 15:00	3	08/05/16 10:10	BTEX & Naphthalene only
<b>T161673-02 SB-4-5 [Soil] Sampled 07/22/16 10:20 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T161673-03 SB-4-7.5 [Soil] Sampled 07/22/16 10:25 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	07/28/16 15:00	3	08/05/16 10:25	+Stoddard solvent
8015 m Gas Purge	07/28/16 15:00	3	08/05/16 10:25	
8260 BTEX/OXY	07/28/16 15:00	3	08/05/16 10:25	BTEX & Naphthalene only
<b>T161673-04 SB-4-8 [Soil] Sampled 07/22/16 10:25 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T161673-05 SB-4-10 [Soil] Sampled 07/22/16 10:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				
<b>T161673-06 SB-4-15 [Soil] Sampled 07/22/16 10:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
[NO ANALYSES]				





**WORK ORDER**

**T161673**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

Analysis	Due	TAT	Expires	Comments
<b>T161673-07 SB-4-20 [Soil] Sampled 07/22/16 11:00 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161673-08 SB-4-25 [Soil] Sampled 07/22/16 11:10 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161673-09 SB-4-GW [Soil] Sampled 07/22/16 12:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	07/28/16 15:00	3	08/05/16 12:00	+Stoddard solvent
8015 m Gas Purge	07/28/16 15:00	3	08/05/16 12:00	
8260 BTEX/OXY	07/28/16 15:00	3	08/05/16 12:00	BTEX & Naphthalene only

Empty rectangular box for additional information or signature.



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

22 August 2016

Lita Freeman  
Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville, CA 95661  
RE: Main Street Property

Enclosed are the results of analyses for samples received by the laboratory on 08/06/16 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
08/22/16 16:11

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-3-10	T161842-03	Soil	08/05/16 07:55	08/06/16 08:40
SB-3-32	T161842-08	Soil	08/05/16 08:10	08/06/16 08:40
SB-3-GW	T161842-12	Water	08/05/16 09:20	08/06/16 08:40
SB-5-4.5	T161842-13	Soil	08/05/16 10:30	08/06/16 08:40
SB-5-8	T161842-14	Soil	08/05/16 10:35	08/06/16 08:40
SB-5-36	T161842-20	Soil	08/05/16 11:00	08/06/16 08:40
SB-5-GW	T161842-22	Water	08/05/16 11:45	08/06/16 08:40

SunStar Laboratories, Inc.

Rose Fasheh, Project Manager

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Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
08/22/16 16:11

**DETECTIONS SUMMARY**

**Sample ID:** SB-3-10

**Laboratory ID:** T161842-03

No Results Detected

**Sample ID:** SB-3-32

**Laboratory ID:** T161842-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	990	500	ug/kg	EPA 8015C	
Ethylbenzene	22	5.0	ug/kg	EPA 8260B	
m,p-Xylene	120	10	ug/kg	EPA 8260B	
o-Xylene	17	5.0	ug/kg	EPA 8260B	

**Sample ID:** SB-3-GW

**Laboratory ID:** T161842-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Toluene	0.57	0.50	ug/l	EPA 8260B	
Ethylbenzene	1.7	0.50	ug/l	EPA 8260B	
m,p-Xylene	5.1	1.0	ug/l	EPA 8260B	
o-Xylene	1.5	0.50	ug/l	EPA 8260B	

**Sample ID:** SB-5-4.5

**Laboratory ID:** T161842-13

No Results Detected

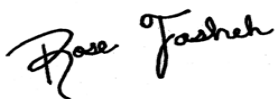
**Sample ID:** SB-5-8

**Laboratory ID:** T161842-14

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
 08/22/16 16:11

Sample ID: SB-5-36

Laboratory ID: T161842-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Naphthalene	26	5.0		ug/kg	EPA 8260B	
m,p-Xylene	22	10		ug/kg	EPA 8260B	

Sample ID: SB-5-GW

Laboratory ID: T161842-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C6-C12 (GRO)	230	50		ug/l	EPA 8015C	
Stoddard Solvent	940	50		ug/l	EPA 8015C	
Naphthalene	19	1.0		ug/l	EPA 8260B	
Ethylbenzene	2.8	0.50		ug/l	EPA 8260B	
m,p-Xylene	40	1.0		ug/l	EPA 8260B	

SunStar Laboratories, Inc.

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 08/22/16 16:11
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**SB-3-10**  
**T161842-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		74.8 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		125 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		116 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	95.7-135		"	"	"	"	

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Rose Fasheh, Project Manager





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 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 08/22/16 16:11
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**SB-3-32**  
**T161842-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>990</b>	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		67.9 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		125 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>22</b>	5.0	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>120</b>	10	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>17</b>	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %	85.5-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	95.7-135		"	"	"	"	

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Rose Fasheh, Project Manager



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 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors 1420 E Roseville Pkwy Roseville CA, 95661	Project: Main Street Property Project Number: 01-2016-1300-001 Project Manager: Lita Freeman	Reported: 08/22/16 16:11
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**SB-3-GW**  
**T161842-12 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	50	ug/l	1	6080828	08/08/16	08/10/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.9 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	50	ug/l	1	6080928	08/09/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	100	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		88.5 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	1.0	ug/l	1	6080827	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.57</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.7</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>5.1</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>1.5</b>	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.9 %	88.8-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.6 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		88.0 %	81.1-136		"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**SB-5-4.5**  
**T161842-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		55.1 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		112 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		107 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	95.7-135		"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**SB-5-8**  
**T161842-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		50.4 %	65-135		"	"	"	"	S-03

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		114 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	ND	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	85.5-116		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		111 %	95.7-135		"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**SB-5-36**  
**T161842-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

C6-C12 (GRO)	ND	500	ug/kg	1	6080832	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		66.2 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

Stoddard Solvent	ND	10	mg/kg	1	6080838	08/08/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		122 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Naphthalene	26	5.0	ug/kg	1	6080833	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	22	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		114 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
 08/22/16 16:11

**SB-5-GW**  
**T161842-22 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Purgeable Petroleum Hydrocarbons by EPA 8015C**

<b>C6-C12 (GRO)</b>	<b>230</b>	50	ug/l	1	6080828	08/08/16	08/10/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		72.0 %	65-135		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015C**

<b>Stoddard Solvent</b>	<b>940</b>	50	ug/l	1	6080928	08/09/16	08/10/16	EPA 8015C	
C13-C28 (DRO)	ND	50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl		82.4 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

<b>Naphthalene</b>	<b>19</b>	1.0	ug/l	1	6080827	08/08/16	08/08/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.8</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>40</b>	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	88.8-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		78.0 %	81.1-136		"	"	"	"	S-GC

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080828 - EPA 5030 GC**

<b>Blank (6080828-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	76.5		"	100		76.5	65-135			
<b>LCS (6080828-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	4430	50	ug/l	5500		80.5	75-125			
Surrogate: 4-Bromofluorobenzene	68.1		"	100		68.1	65-135			
<b>LCS Dup (6080828-BSD1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	4380	50	ug/l	5500		79.6	75-125	1.13	20	
Surrogate: 4-Bromofluorobenzene	65.9		"	100		65.9	65-135			

**Batch 6080832 - EPA 5030 GC**

<b>Blank (6080832-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	90.0		"	100		90.0	65-135			
<b>LCS (6080832-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	11800	500	ug/kg	10900		108	75-125			
Surrogate: 4-Bromofluorobenzene	69.4		"	100		69.4	65-135			
<b>LCS Dup (6080832-BSD1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C6-C12 (GRO)	10800	500	ug/kg	10900		98.9	75-125	8.62	20	
Surrogate: 4-Bromofluorobenzene	67.6		"	100		67.6	65-135			

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080838 - EPA 3550B GC**

<b>Blank (6080838-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
Stoddard Solvent	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	117		"	99.3		118	65-135			

<b>LCS (6080838-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/10/16								
C13-C28 (DRO)	550	10	mg/kg	499		109	75-125			
Surrogate: <i>p</i> -Terphenyl	119		"	99.8		119	65-135			

<b>Matrix Spike (6080838-MS1)</b>		<b>Source: T161842-03</b>		Prepared: 08/08/16 Analyzed: 08/10/16						
C13-C28 (DRO)	570	10	mg/kg	499	ND	114	75-125			
Surrogate: <i>p</i> -Terphenyl	122		"	99.8		122	65-135			

<b>Matrix Spike Dup (6080838-MSD1)</b>		<b>Source: T161842-03</b>		Prepared: 08/08/16 Analyzed: 08/10/16						
C13-C28 (DRO)	550	10	mg/kg	499	ND	111	75-125	2.88	20	
Surrogate: <i>p</i> -Terphenyl	121		"	99.8		121	65-135			

**Batch 6080928 - EPA 3510C GC**

<b>Blank (6080928-BLK1)</b>		Prepared: 08/09/16 Analyzed: 08/10/16								
Stoddard Solvent	ND	500	ug/l							
C13-C28 (DRO)	ND	500	"							
C29-C40 (MORO)	ND	500	"							
Surrogate: <i>p</i> -Terphenyl	3330		"	4000		83.3	65-135			

<b>LCS (6080928-BS1)</b>		Prepared: 08/09/16 Analyzed: 08/10/16								
C13-C28 (DRO)	17200	500	ug/l	20000		86.1	75-125			
Surrogate: <i>p</i> -Terphenyl	3600		"	4000		89.9	65-135			

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080928 - EPA 3510C GC**

**LCS Dup (6080928-BSD1)**

Prepared: 08/09/16 Analyzed: 08/10/16

C13-C28 (DRO)	19200	500	ug/l	20000		96.0	75-125	10.8	20	
Surrogate: <i>p</i> -Terphenyl	3770		"	4000		94.2	65-135			

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080827 - EPA 5030 GCMS**

**Blank (6080827-BLK1)**

Prepared & Analyzed: 08/08/16

Naphthalene	ND	1.0	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: Toluene-d8	7.75		"	8.00		96.9	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.61		"	8.00		95.1	83.5-119			
Surrogate: Dibromofluoromethane	6.88		"	8.00		86.0	81.1-136			

**LCS (6080827-BS1)**

Prepared & Analyzed: 08/08/16

Chlorobenzene	20.3	1.0	ug/l	20.0		102	75-125			
1,1-Dichloroethene	17.0	1.0	"	20.0		85.2	75-125			
Trichloroethene	19.4	1.0	"	20.0		96.9	75-125			
Benzene	20.2	0.50	"	20.0		101	75-125			
Toluene	18.0	0.50	"	20.0		89.8	75-125			
Surrogate: Toluene-d8	7.32		"	8.00		91.5	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.70		"	8.00		96.2	83.5-119			
Surrogate: Dibromofluoromethane	7.02		"	8.00		87.8	81.1-136			

**LCS Dup (6080827-BSD1)**

Prepared & Analyzed: 08/08/16

Chlorobenzene	20.3	1.0	ug/l	20.0		101	75-125	0.197	20	
1,1-Dichloroethene	17.0	1.0	"	20.0		85.2	75-125	0.0587	20	
Trichloroethene	18.3	1.0	"	20.0		91.4	75-125	5.90	20	
Benzene	20.0	0.50	"	20.0		100	75-125	0.747	20	
Toluene	17.4	0.50	"	20.0		87.2	75-125	2.94	20	
Surrogate: Toluene-d8	7.34		"	8.00		91.8	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.97		"	8.00		99.6	83.5-119			
Surrogate: Dibromofluoromethane	6.91		"	8.00		86.4	81.1-136			

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25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Environmental Risk Assessors  
 1420 E Roseville Pkwy  
 Roseville CA, 95661

Project: Main Street Property  
 Project Number: 01-2016-1300-001  
 Project Manager: Lita Freeman

Reported:  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080833 - EPA 5030 GCMS**

**Blank (6080833-BLK1)**

Prepared & Analyzed: 08/08/16

Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Methyl tert-butyl ether	ND	20	"							
Surrogate: Toluene-d8	46.3		"	39.6		117	85.5-116			S-GC
Surrogate: 4-Bromofluorobenzene	43.1		"	39.6		109	81.2-123			
Surrogate: Dibromofluoromethane	37.5		"	39.6		94.8	95.7-135			S-GC

**LCS (6080833-BS1)**

Prepared & Analyzed: 08/08/16

Benzene	89.5	5.0	ug/kg	99.8		89.7	75-125			
Toluene	91.0	5.0	"	99.8		91.2	75-125			
Surrogate: Toluene-d8	42.8		"	39.9		107	85.5-116			
Surrogate: 4-Bromofluorobenzene	42.8		"	39.9		107	81.2-123			
Surrogate: Dibromofluoromethane	42.5		"	39.9		106	95.7-135			

**LCS Dup (6080833-BSD1)**

Prepared & Analyzed: 08/08/16

Benzene	100	5.0	ug/kg	99.2		101	75-125	11.1	20	
Toluene	95.3	5.0	"	99.2		96.0	75-125	4.58	20	
Surrogate: Toluene-d8	39.7		"	39.7		100	85.5-116			
Surrogate: 4-Bromofluorobenzene	39.2		"	39.7		98.9	81.2-123			
Surrogate: Dibromofluoromethane	43.4		"	39.7		109	95.7-135			

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25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Environmental Risk Assessors  
1420 E Roseville Pkwy  
Roseville CA, 95661

Project: Main Street Property  
Project Number: 01-2016-1300-001  
Project Manager: Lita Freeman

**Reported:**  
08/22/16 16:11

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

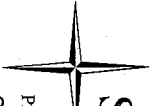
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SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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Rose Fasheh, Project Manager



**SunStar Laboratories, Inc.**  
 PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE  
 25712 Commercentre Drive, Lake Forest, CA 92630  
 949-297-5020

**Chain of Custody Record**

Client: ENVIRONMENTAL RISK ASSESSORS  
 Address: 1420 E. ROSSVILLE PKWY #140-262, ROSSVILLE, CA 95061  
 Phone: 916-677-9897 Fax: \_\_\_\_\_  
 Project Manager: Lita Frazman

Date: 8/5/16 Page: 1 Of 2  
 Project Name: Main Street Property  
 Collector: Lita Frazman Client Project #: 01-2016-1300-001  
 Batch #: T161842 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 Napthalene, BTEX only	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) + TPH MO	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	TPH Stoddard solvent	Hold	Laboratory ID #	Comments/Preservative	Total # of containers
SB-3-4	8-5-16	0745	SOI	hub													01		1
SB-3-5	8-5-16	0750	SOI	hub	X												02		1
SB-3-10	8-5-16	0755	SOI	hub													03		1
SB-3-15	8-5-16	0758	SOI	hub													04		1
SB-3-20	8-5-16	0803	SOI	hub													05		1
SB-3-25	8-5-16	0807	SOI	hub													06		1
SB-3-30	8-5-16	0810	SOI	hub													07		1
SB-3-32	8-5-16	0810	SOI	hub													08		1
SB-3-32.5	8-5-16	0815	SOI	hub													09		1
SB-3-35.5	8-5-16	0815	SOI	hub													10		1
SB-3-36	8-5-16	0815	SOI	hub													11		1
SB-3-36D	8-5-16	0920	SOI	hub													12		1
SB-5-4.5	8-5-16	1030	SOI	hub	X												13		1
SB-5-8	8-5-16	1035	SOI	hub	X												14		1
SB-5-10	8-5-16	1038	SOI	hub	X												15		1
Reinquinshed by: (signature) <u>Lita Frazman</u> Date / Time <u>8-5-16 1710</u>			Received by: (signature) <u>Lita Frazman</u>	Date / Time <u>8/5/16 17:10</u>	Chain of Custody seals <u>NNNA</u>														
Reinquinshed by: (signature) <u>GSO</u> Date / Time <u>8-6-16 840</u>			Received by: (signature) <u>GSO</u>	Date / Time <u>8-6-16 840</u>	Received good condition/cold														

Notes  
 Report to:  
Lita Frazman@gmail.com  
8-6-16 pm

Sample disposal instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_ Turn around time: 5 day

COC 141156



# Chain of Custody Record

SunStar Laboratories, Inc.  
 25712 Commercentre Dr  
 Lake Forest, CA 92630  
 949-297-5020

Client: Environmental Risk Assessors  
 Address: 14205 Roseville Parkway #140-2102, Roseville CA 95661  
 Phone: 916-677-9897 Fax: \_\_\_\_\_  
 Project Manager: Lita Freeman

Date: 8/5/16 Page: 2 of 2  
 Project Name: Main Street Property  
 Collector: Lita Freeman Client Project #: 01-2016-1300-001  
 Batch #: T161812 EDF #: \_\_\_\_\_

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 = Naphthalene, BTEX only	8260 + OXY	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) + TPHmd	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	TPH Standard Solvent	Hold	Laboratory ID #	Comments/Preservative	Total # of containers
SB-5-15	8-5-16	1040	SOI	fu2E										X	16		1
SB-5-20	8-5-16	1045	SOI	fu2E										X	17		1
SB-5-25	8-5-16	1050	SOI	fu2E										X	18		1
SB-5-32	8-5-16	1055	SOI	fu2E										X	19		1
SB-5-36	8-5-16	1100	SOI	fu2E										X	20		1
SB-5-39	8-5-16	1110	SOI	fu2E										X	21		1
SB-5-6w	8-5-16	1145	SOI	fu2E										X	22		1
<div style="display: flex; justify-content: space-between;"> <div> <p>Relinquished by: (signature) _____ Date / Time _____</p> <p>Relinquished by: (signature) <u>LSO</u> Date / Time <u>8-6-16 8:40</u></p> </div> <div> <p>Received by: (signature) _____ Date / Time _____</p> <p>Received by: (signature) <u>[Signature]</u> Date / Time <u>8/5/16 17:10</u></p> </div> </div>																	
<p>Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____</p> <p>Turn around time: <u>5 day</u></p>																	
<p>Notes: <u>Report to: Lita.Freeman@gmail.com</u></p> <p style="text-align: center;"><b>STD. TAT</b></p> <p style="text-align: right;">8-6-16 <u>DM</u></p>																	

COC135467

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: TL61842

Client Name: Environmental Risk Assessors Project: Main Street Property

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: \_\_\_\_\_ Date/Time Courier Received: \_\_\_\_\_

Lab Received by: Don M. Date/Time Lab Received: 8-6-16 840

Total number of coolers received: 1

Temperature:	Cooler #1	2.4	°C +/- the CF (- 0.2°C) =	2.2	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>			Within criteria?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<b>If NO:</b>					
Samples received on ice?		<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>		
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>		

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 8-6-16

**Comments:** \_\_\_\_\_

**WORK ORDER**

**T161842**

**Client: Environmental Risk Assessors**

**Project Manager: Rose Fasheh**

**Project: Main Street Property**

**Project Number: 01-2016-1300-001**

**Report To:**

Environmental Risk Assessors  
 Lita Freeman  
 1420 E Roseville Pkwy  
 Roseville, CA 95661

Date Due: 08/11/16 17:00 (3 day TAT)

Received By: Dan Marteski

Date Received: 08/06/16 08:40

Logged In By: Dan Marteski

Date Logged In: 08/06/16 13:07

Samples Received at: **2.2°C**  
 Custody Seals Yes Received On Ice Yes  
 Containers Intact Yes  
 COC/Labels Agree Yes  
 Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
<b>T161842-01 SB-3-4 [Soil] Sampled 08/05/16 07:45 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-02 SB-3-5 [Soil] Sampled 08/05/16 07:50 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-03 SB-3-10 [Soil] Sampled 08/05/16 07:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 07:55	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 07:55	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 07:55	BTEX & Naphthalene only
<b>T161842-04 SB-3-15 [Soil] Sampled 08/05/16 07:58 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-05 SB-3-20 [Soil] Sampled 08/05/16 08:03 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-06 SB-3-25 [Soil] Sampled 08/05/16 08:07 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>

**WORK ORDER**

**T161842**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

Analysis	Due	TAT	Expires	Comments
<b>T161842-07 SB-3-30 [Soil] Sampled 08/05/16 08:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-08 SB-3-32 [Soil] Sampled 08/05/16 08:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 08:10	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 08:10	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 08:10	BTEX & Naphthalene only
<b>T161842-09 SB-3-32.5 [Soil] Sampled 08/05/16 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-10 SB-3-35.5 [Soil] Sampled 08/05/16 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-11 SB-3-36 [Soil] Sampled 08/05/16 08:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp; [NO ANALYSES])</b>				
<b>T161842-12 SB-3-GW [Water] Sampled 08/05/16 09:20 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/12/16 09:20	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 09:20	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 09:20	BTEX & Naphthalene only
<b>T161842-13 SB-5-4.5 [Soil] Sampled 08/05/16 10:30 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 10:30	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 10:30	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 10:30	BTEX & Naphthalene only
<b>T161842-14 SB-5-8 [Soil] Sampled 08/05/16 10:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 10:35	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 10:35	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 10:35	BTEX & Naphthalene only

**WORK ORDER**

**T161842**

<b>Client:</b> Environmental Risk Assessors	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Main Street Property	<b>Project Number:</b> 01-2016-1300-001

Analysis	Due	TAT	Expires	Comments
<b>T161842-15 SB-5-10 [Soil] Sampled 08/05/16 10:38 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-16 SB-5-15 [Soil] Sampled 08/05/16 10:40 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-17 SB-5-20 [Soil] Sampled 08/05/16 10:45 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-18 SB-5-25 [Soil] Sampled 08/05/16 10:50 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-19 SB-5-32 [Soil] Sampled 08/05/16 10:55 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-20 SB-5-36 [Soil] Sampled 08/05/16 11:00 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/19/16 11:00	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 11:00	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 11:00	BTEX & Naphthalene only
<b>T161842-21 SB-5-39 [Soil] Sampled 08/05/16 11:10 (GMT-08:00) Pacific Time (US &amp; [NO ANALYSES]</b>				<b>HOLD</b>
<b>T161842-22 SB-5-GW [Water] Sampled 08/05/16 11:45 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 CC (D/MO)	08/11/16 15:00	3	08/12/16 11:45	+Stoddard solvent
8015 m Gas Purge	08/11/16 15:00	3	08/19/16 11:45	
8260 BTEX/OXY	08/11/16 15:00	3	08/19/16 11:45	BTEX & Naphthalene only



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1607A34 **Amended:** 08/01/2016

**Report Created for:** Environmental Risk Assessors

1420 East Roseville Parkway, Suite 140-262  
Roseville, CA 95661

**Project Contact:** Lita Freeman

**Project P.O.:**

**Project Name:** 01-1300-2016-001; Main St. Property

**Project Received:** 07/22/2016

Analytical Report reviewed & approved for release on 07/29/2016 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Environmental Risk Assessors  
**Project:** 01-1300-2016-001; Main St. Property  
**WorkOrder:** 1607A34

### Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

### Quality Control Qualifiers

F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.





# Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/26/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** %

## Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC26	124421

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	07/26/2016 08:39

 Angela Rydelius, Lab Manager



# Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** uL/L

## Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC26	124423

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Methane	9.0	2.0	1	07/27/2016 10:53

 Angela Rydelius, Lab Manager



# Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** %

## Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC26	124423

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Methane	0.00090	0.00020	1	07/27/2016 10:53

 Angela Rydelius, Lab Manager



## Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC24	124413

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	11	2	07/27/2016 19:50
Surrogates	REC (%)	Limits		
1,2-DCA-d4	111	70-130		07/27/2016 19:50
Toluene-d8	106	70-130		07/27/2016 19:50
4-BFB	100	70-130		07/27/2016 19:50

 Angela Rydelius, Lab Manager



# Analytical Report

**Client:** Environmental Risk Assessors  
**Date Received:** 7/22/16 18:00  
**Date Prepared:** 7/27/16  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µL/L

## Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-SG	1607A34-001A	SoilGas	07/22/2016 15:00	GC24	124413

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.73	23.38	AK

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	0.0020	2	07/27/2016 19:50

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	111	70-130	07/27/2016 19:50
Toluene-d8	106	70-130	07/27/2016 19:50
4-BFB	100	70-130	07/27/2016 19:50

 Angela Rydelius, Lab Manager



## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/26/16  
**Date Analyzed:** 7/26/16  
**Instrument:** GC26  
**Matrix:** Soilgas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124421  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** %  
**Sample ID:** MB/LCS-124421

---

### QC Summary Report for ASTM D1946-90

---

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.0733	0.025	0.10	-	73	60-140

---

QA/QC Officer



## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC26  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124423  
**Extraction Method:** ASTM D 1946-90  
**Analytical Method:** ASTM D 1946-90  
**Unit:** uL/L  
**Sample ID:** MB/LCS-124423

---

### QC Summary Report for ASTM D1946-90

---

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Methane	ND	112	1.0	100	-	112	70-130

---

QA/QC Officer





## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC24  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124413  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>  
**Sample ID:** MB/LCS-124413

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	46.2	30	60	-	77	60-140
Acrolein	ND	51.6	2.9	58.25	-	89	60-140
Acrylonitrile	ND	54.2	0.55	55	-	99	60-140
tert-Amyl methyl ether (TAME)	ND	102	1.0	105	-	97	60-140
Benzene	ND	66.8	0.80	80	-	83	60-140
Benzyl chloride	ND	169	1.3	132.5	-	128	60-140
Bromodichloromethane	ND	171	1.8	175	-	98	60-140
Bromoform	ND	293	2.6	262.5	-	112	60-140
Bromomethane	ND	101	1.0	97.5	-	103	60-140
1,3-Butadiene	ND	46.6	0.55	55	-	85	60-140
2-Butanone (MEK)	ND	71.6	38	75	-	95	60-140
t-Butyl alcohol (TBA)	ND	66.8	16	77.5	-	86	60-140
Carbon Disulfide	ND	75.3	0.80	80	-	94	60-140
Carbon Tetrachloride	ND	94.3	1.6	160	-	59, F2	60-140
Chlorobenzene	ND	116	1.2	117.5	-	99	60-140
Chloroethane	ND	55.4	0.65	67.5	-	82	60-140
Chloroform	ND	106	1.2	122.5	-	86	60-140
Chloromethane	ND	42.6	0.50	52.5	-	81	60-140
Cyclohexane	ND	77.2	9.0	87.5	-	88	60-140
Dibromochloromethane	ND	237	2.2	217.5	-	109	60-140
1,2-Dibromo-3-chloropropane	ND	284	0.060	245	-	116	60-140
1,2-Dibromoethane (EDB)	ND	213	2.0	195	-	109	60-140
1,2-Dichlorobenzene	ND	166	1.5	152.5	-	109	60-140
1,3-Dichlorobenzene	ND	162	1.5	152.5	-	107	60-140
1,4-Dichlorobenzene	ND	168	1.5	152.5	-	110	60-140
Dichlorodifluoromethane	ND	113	1.2	125	-	90	60-140
1,1-Dichloroethane	ND	94.9	1.0	102.5	-	93	60-140
1,2-Dichloroethane (1,2-DCA)	ND	90.8	1.0	102.5	-	89	60-140
1,1-Dichloroethene	ND	107	1.0	100	-	107	60-140
cis-1,2-Dichloroethene	ND	91.8	1.0	100	-	92	60-140
trans-1,2-Dichloroethene	ND	83.9	1.0	100	-	84	60-140
1,2-Dichloropropane	ND	102	1.2	117.5	-	87	60-140
cis-1,3-Dichloropropene	ND	140	1.2	115	-	121	60-140
trans-1,3-Dichloropropene	ND	128	1.2	115	-	111	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	156	1.8	177.5	-	88	60-140
Diisopropyl ether (DIPE)	ND	93.2	1.0	105	-	89	60-140
1,4-Dioxane	ND	99.0	0.90	92.5	-	107	60-140

(Cont.)

 QA/QC Officer



## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC24  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124413  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>  
**Sample ID:** MB/LCS-124413

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	ND	48	47.5	-	80	60-140
Ethyl acetate	ND	92.2	0.90	92.5	-	100	60-140
Ethyl tert-butyl ether (ETBE)	ND	98.9	1.0	105	-	94	60-140
Ethylbenzene	ND	115	1.1	110	-	104	60-140
4-Ethyltoluene	ND	137	1.2	125	-	109	60-140
Freon 113	ND	173	2.0	195	-	89	60-140
Heptane	ND	90.3	10	105	-	86	60-140
Hexachlorobutadiene	ND	312	2.7	270	-	116	60-140
Hexane	ND	76.0	9.0	90	-	84	60-140
2-Hexanone	ND	133	1.0	105	-	127	60-140
Isopropyl Alcohol	ND	58.5	25	62.5	-	94	60-140
4-Methyl-2-pentanone (MIBK)	ND	116	1.0	105	-	110	60-140
Methyl-t-butyl ether (MTBE)	ND	89.0	0.90	92.5	-	96	60-140
Methylene chloride	ND	86.1	4.4	87.5	-	98	60-140
Methyl methacrylate	ND	102	1.0	104	-	98	60-140
Naphthalene	ND	316	2.6	265	-	119	60-140
Propene	ND	ND	44	42.5	-	92	60-140
Styrene	ND	113	1.1	107.5	-	105	60-140
1,1,1,2-Tetrachloroethane	ND	169	1.8	175	-	97	60-140
1,1,2,2-Tetrachloroethane	ND	175	1.8	175	-	100	60-140
Tetrachloroethene	ND	189	1.7	172	-	110	60-140
Tetrahydrofuran	ND	65.8	1.5	75	-	88	60-140
Toluene	ND	93.0	0.95	95	-	98	60-140
1,2,4-Trichlorobenzene	ND	227	1.9	187.5	-	121	60-140
1,1,1-Trichloroethane	ND	160	1.4	137.5	-	116	60-140
1,1,2-Trichloroethane	ND	135	1.4	137.5	-	98	60-140
Trichloroethene	ND	121	1.4	137.5	-	88	60-140
Trichlorofluoromethane	ND	140	1.4	142.5	-	98	60-140
1,2,4-Trimethylbenzene	ND	137	1.2	125	-	110	60-140
1,3,5-Trimethylbenzene	ND	133	1.2	125	-	106	60-140
Vinyl Acetate	ND	107	9.0	90	-	119	60-140
Vinyl Chloride	ND	48.6	0.65	65	-	75	60-140
Xylenes, Total	ND	347	3.3	330	-	105	60-140

(Cont.)

QA/QC Officer



## Quality Control Report

**Client:** Environmental Risk Assessors  
**Date Prepared:** 7/27/16  
**Date Analyzed:** 7/27/16  
**Instrument:** GC24  
**Matrix:** SoilGas  
**Project:** 01-1300-2016-001; Main St. Property

**WorkOrder:** 1607A34  
**BatchID:** 124413  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>  
**Sample ID:** MB/LCS-124413

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
1,2-DCA-d4	562	506		500	112	101	70-130
Toluene-d8	541	551		500	108	110	70-130
4-BFB	506	515		500	101	103	70-130

QA/QC Officer



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 1607A34**

**ClientCode: ERAR**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**  
Lita Freeman  
Environmental Risk Assessors  
1420 East Roseville Parkway, Suite 140-262  
Roseville, CA 95661  
(916) 677-9897    FAX:

Email: litafreeman@gmail.com  
cc/3rd Party:  
PO:  
ProjectNo: 01-1300-2016-001; Main St. Property

**Bill to:**  
Accounts Payable  
Environmental Risk Assessors  
1420 East Roseville Parkway, Suite 140  
Roseville, CA 95661

**Requested TAT: 5 days;**  
**Date Received: 07/22/2016**  
**Date Logged: 07/22/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1607A34-001	SB-3-SG	SoilGas	7/22/2016 15:00	<input type="checkbox"/>	A	A	A	A	A	A						

**Test Legend:**

1	HELIUM_LC_SOILGAS(%)	2	LG_SUMMA_SOILGAS	3	PREFD REPORT	4	PRHELIUM SHROUD
5	TO15_Scan-SIM_SOIL(UG/M3)	6	TO15-8260_SOIL(UG/M3)	7		8	
9		10		11		12	

**Prepared by: Jena Alfaro**

The following SampID: 001A contains testgroup TO15He\_SG(UG/M3).

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** ENVIRONMENTAL RISK ASSESSORS

**QC Level:** LEVEL 2

**Work Order:** 1607A34

**Project:** 01-1300-2016-001; Main St. Property

**Client Contact:** Lita Freeman

**Date Logged:** 7/22/2016

**Comments:**

**Contact's Email:** litafreeman@gmail.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1607A34-001A	SB-3-SG	SoilGas	ASTM D1946-90 (Light Gases) <Methane_4> TO15 w/ Helium	1	1L Summa	<input type="checkbox"/>	7/22/2016 15:00	5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

11007A34



# McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701  
www.mcccampbell.com / main@mcccampbell.com  
Telephone: (877) 252-9262 / Fax: (925) 252-9269

## CHAIN OF CUSTODY RECORD

**TURN AROUND TIME:** RUSH  1 DAY  2 DAY  3 DAY  5 DAY   
GeoTracker EDF  PDF  EDD  EQuIS  10 DAY   
UST CLEAN UP FUND  ; Claim #

Report To: Lita Freeman Bill To: Environmental Risk Assessors

Company: Environmental Risk Assessors

1420 E. Roseville Pkwy #140-262  
Roseville CA 95661 E-Mail: litafreeman@gmail.com

Tele: (916) 677 9897 Fax: ( )

Project #: 01-1300-2016-001 Project Name: Main St. Property

Project Location: 927 Main Street

Sampler Signature: Lita Freeman

### Analysis Requested

### Helium Shroud SN#

#### Other:

Notes: Please Specify units if different than default: VOCs is reported in ug/m3, fixed gas is reported in uL/L. Leak check default is IPA. Helium Shroud

Field Sample ID (Location)	Collection		Canister SN#	Sample Kit SN#	VOCs by TO-15 (ug/m3)	8010 by TO-15 (ug/m3)	TPH(g) (ug/m3)	LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L	Fixed Gas: O2, N2 (please circle) uL/L	Fixed Gas: Propane uL/L	Helium Leak Check (%)	Leak Check (IPA, Norflorane, 1,1-difluoroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other:	Matrix		Canister Pressure/ Vacuum	
	Date	Time														Soilgas	Indoor Air	Initial	Final
SB-3-SG	7-22-16	1500	CAN1926-1909	MAN316T-1309	X							X				X		-10	-5

Relinquished By: Lita Freeman Date: 7-22-16 Time: 1500 Received By: [Signature]

Relinquished By: [Signature] Date: 7/22 Time: 1800 Received By: [Signature]

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Temp (°C): \_\_\_\_\_ Work Order #: \_\_\_\_\_  
Condition: \_\_\_\_\_  
Custody Seals Intact?: Yes \_\_\_\_\_ No \_\_\_\_\_ None \_\_\_\_\_  
Shipped Via: \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **Environmental Risk Assessors**  
 Project Name: **01-1300-2016-001; Main St. Property**  
 WorkOrder No: **1607A34** Matrix: SoilGas  
 Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received: **7/22/2016 18:00**  
 Date Logged: **7/22/2016**  
 Received by: **Jena Alfaro**  
 Logged by: **Jena Alfaro**

#### Chain of Custody (COC) Information

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

#### Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

#### UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

-----  
 Comments:



**Appendix G**

Town & Country Veterinary Hospital UST  
Removal Documents

TO: Files

FROM: CHRIS BOYKIN

SUBJECT: TOWN AND COUNTRY VETERINARY HOSPITAL TANK REMOVAL - SOIL RESULTS - 923 Main Street

DATE: Januray 25, 1996

I spoke with Barrington Construction (828-5381) concerning the tank removal at Town and Country Vets at 923 Main Street. The tank removal took place in March, 1988. They rememebered the job but did not remember any of the paperwork that followed it. They suggested to call Dr. Don Gardner, the vet.

I spoke with Dr. Gardner. I asked if he could call Clayton Environmental to obtain soil sample results. He called Clayton. Clayton said that they do not keep paperwork over five years and did not have it.

I asked if he could go back through his records to find the report. He said that it would be very difficult to do and he was not sure if he kept any paperwork on it.

I spoke with Carlos who has worked for him for the past 7 years. He said he remembered the tank being pulled and that he had to put together all of the paperwork including soil results to send to the Board of Equilization to get a refund from taxes that he had paid. He said that he didn't know if the paperwork was at the office or where the Doctor had put it.

CITY OF PLEASANTON FIRE DEPARTMENT  
CLOSURE PLAN FOR UNDERGROUND STORAGE TANKS

AMOUNT OF FEE DUE CITY OF PLEASANTON: 78.00

FIRE PERMIT NUMBER (ALSO FUNCTIONS AS CLOSURE PLAN PERMIT) :

DATE CLOSURE PLAN SUBMITTED : 3/17/88

TANK CLOSURE PERMIT EXPIRES \_\_\_\_\_ DAYS FROM THE DATE OF CLOSURE PLAN APPROVAL.

FEE PAID AND DATE: 78.00 3/17/88

FACILITY NAME: Town and Country Veterinary Hospital

PHONE # : 462-1666

FACILITY ADDRESS: 923 Main St. Pleasanton (Stanley and Main)

CONTACT PERSON: Don Bob Gardener

TANK CLOSURE CONTRACTOR: Barrington Construction B-1# 508282

ADDRESS: 132 Madora Place

CITY: San Ramon CA.

PHONE NUMBER : 415 828-5381

NAME AND PHONE NUMBER OF FIRM WHO WILL TAKE SOIL SAMPLES:

Clayton Environmental Consultants

PH #: 426-2670

NAME AND PHONE NUMBER OF LABORATORY THAT WILL ANALYZE SOIL SAMPLES:

Clayton Environmental Consultants

PH #: 426-2670

APPROXIMATE DATE OF TANK CLOSURE: March 18-25, 1988

METHOD OF TANK CLOSURE: Triple Rinse, Manifest Rinsate, Document Rinsate,  
Haul tank as scrap, Inert w/dry ice

1. ADDING DRY ICE (1.5 LBS PER 100 GALLON CAPACITY), MANIFEST AND REMOVE AS HAZARDOUS WASTE

2. TRIPLE RINSE HAZARDOUS SLUDGE/RESIDUE, MANIFEST RESIDUE/SLUDGE AND REMOVE TANK(S).

3. OTHER PROCEDURE (DESCRIBE):

NAME OF TANK HAULER: Fuel Oil Polishing Company, Sonoma, CA.

West Coast Metals, Windsor, CA 3-21-88 M.R.

DESTINATION OF TANK(S): Levine Scrap Metal Richmond, CA.

TANKS TO BE REMOVED:

	SIZE	TANK CONTENTS	AGE	LAST TIME TESTED	REASON FOR REMOVAL
TANK #1.	350 Gal.	Gasoline/Unleaded Gasoline	est. 15 yrs	None	Site renovation
TANK #2.	350 Gal.	Gasoline & unleaded gasoline	est. 15 yrs	Never	Site Renovation
TANK #3.					
TANK #4.					
TANK #5.					
TANK #6.					

(ATTACH EXTRA SHEETS AS NECESSARY)

=====

PLOT PLAN:

ATTACH A PLOT PLAN OF THE TANKS TO BE CLOSED. INDICATE THE NEAREST CROSS STREETS TO THE FACILITY, THE BUILDINGS IMMEDIATELY ADJACENT TO THE TANKS, AND THE LOCATION OF THE TANKS TO BE CLOSED.

(NOTE: PLOT PLAN MUST BE STAMPED AND CLOSURE PLAN APPROVED BY FIRE PREVENTION BUREAU BEFORE PERMIT CAN BE ISSUED.)

=====

I DECLARE, UNDER THE PENALTY OF PERJURY, THAT THE AFOREMENTIONED INFORMATION AND ATTACHED PLOT PLAN(S) ARE CORRECT TO THE BEST OF MY KNOWLEDGE. IF THERE IS ANY CHANGE WHICH WOULD MATERIALLY AFFECT THE ABOVE INFORMATION, I WILL NOTIFY PLEASANTON FIRE DEPARTMENT, CHEMICAL SPECIALIST , OR FIRE MARSHALL, IN THE ABSENCE OF THE CHEMICAL SPECIALIST.

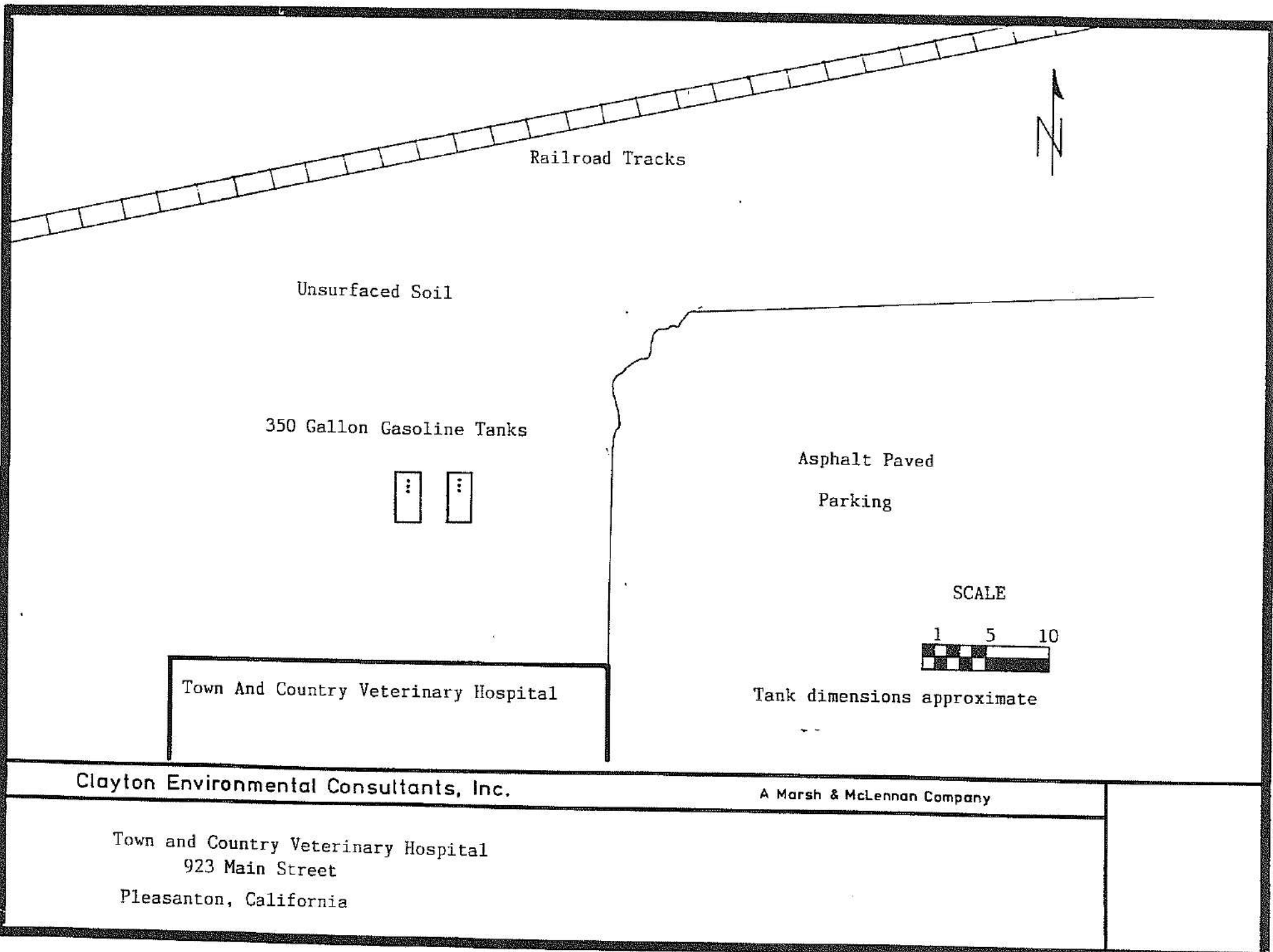
Mark A. Richards

3-11-88

(APPLICANT'S SIGNATURE AND DATE )

FORM 181-302-7/87-REVISED

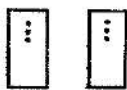
OK RM 3-18-88



Railroad Tracks

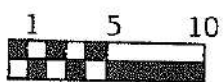
Unsurfaced Soil

350 Gallon Gasoline Tanks



Asphalt Paved  
Parking

SCALE



Tank dimensions approximate

Town And Country Veterinary Hospital

Clayton Environmental Consultants, Inc.

A Marsh & McLennan Company

Town and Country Veterinary Hospital  
923 Main Street  
Pleasanton, California

**Appendix H**

CBRE Geophysical Survey Report  
dated March 30, 2016



# GEOPHYSICAL SURVEY

915 Main Street  
Pleasanton, California  
CBRE Project No.: E60305022

**Prepared For:**  
Dunn Environmental

[www.cbre.com/Assessment](http://www.cbre.com/Assessment)

**CBRE**





March 30, 2016

Mr. Chris Gates  
Director of Operations  
Dunn Environmental  
13122 S 178th Street  
Goodyear, Arizona  
(480) 227-2305  
Chris.Gates@DunnEnvironmental.com

RE: Geophysical Survey  
915 Main Street  
Pleasanton, California  
CBRE Project No.: E60305022

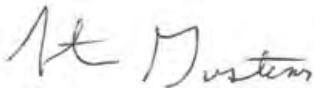
Dear Mr. Gates:

CBRE, Inc., a Delaware corporation ("CBRE") has completed a geophysical Survey of the above referenced property. The work was conducted in accordance with CBRE's letter of engagement and generally accepted industry standards. This report was prepared solely for the use of Dunn Environmental (hereinafter "Client" or "User") and any party specifically referenced in Section 1.4 User Reliance. No other party shall use or rely on this report or the findings herein, without the prior written consent of CBRE.

Thank you for the opportunity to provide our services. If you have any questions or need any additional information please contact the undersigned at (914) 597-6946 or at [steven.gustems@cbre.com](mailto:steven.gustems@cbre.com).

Sincerely,

CBRE, Inc.



Steven Gustems  
Project Management Director

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1.3.	SPECIAL TERMS AND CONDITIONS .....	1
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## ATTACHMENTS

GPRS Summary Report

## 1.0 INTRODUCTION

CBRE is pleased to submit our Geophysical Survey (Survey) of the property located at Street 915 Main Street, Pleasanton, California herein referred to as the "Subject".

### 1.1. Background and Purpose

The purpose of this Survey is to identify the potential for unknown underground storage tanks (USTs) as per client request.

### 1.2. Limitations and Exceptions

- The scope of work completed was designed solely to meet the needs of the Client. CBRE shall not be liable for any unattended usage of this report by another party.
- No subsurface investigation can wholly eliminate uncertainty regarding the presence of contamination on a property. This Survey was designed to reduce, but not eliminate the potential for RECs at the Subject, within reasonable limits of time and cost. The Survey is not intended to be exhaustive or all inclusive and does not represent a guarantee of the identification of all possible environmental risk.
- Client is advised that if the Survey is obtained with the intent of qualifying the purchaser as an innocent landowner, contiguous property owner, or bona fide prospective purchaser under CERCLA, there will be continuing obligations of due care and responsiveness and additional legal requirements that likely apply to such status. CBRE accepts and undertakes no responsibility as to such requirements and advises that counsel be separately consulted with respect to such requirements.

### 1.3. Special Terms and Conditions

There are no special terms and conditions associated with this assignment.

### 1.4. User Reliance

This Survey was conducted on behalf of and for the exclusive use of the Client. This report, and the findings contained herein, shall not, in whole or part, be disseminated or conveyed to or used by any other party without the prior written consent of CBRE.

## 2.0 PROPERTY DESCRIPTION

Project Name: 915 Main Street  
Project Address: 915 Main Street  
City, State Zip Code: Pleasanton, California

### 3.0 SCOPE OF WORK

This Assessment was prepared in accordance with CBRE's Proposal for Geophysical Survey, dated March 17, 2016). Specifically, this Survey included the following activities:

- A geophysical survey to attempt to identify USTs.

### 4.0 GEOPHYSICAL SURVEY

CBRE retained the services of Ground Penetrating Radar Systems, Inc. (GPRS) to conduct a geophysical survey at the Subject, as directed by CBRE. Specifically, GPRS investigated accessible areas of the Subject for subsurface anomalies. Two areas not accessible during this Survey were the fenced off area around the dog kennel tenant located on the west side of the Subject and the transformer area located near the northeastern corner of the Subject. The areas in question were surveyed by scanning in a grid pattern on two-foot centers.

GPRS conducted the Survey using following equipment:

- Geophysical Survey Systems, Inc. (GSSI), model SIR-3000 ground penetrating radar unit. The antenna used for this project was a 400 MHz antenna. The specific antenna was created and calibrated specifically for locating underground utilities, USTs, piping, and other underground anomalies. A 3.5' to 4' below ground surface scanning depth was achieved during this Survey;
- Schonstedt GA-52Cx magnetometer capable of detecting iron and steel objects to identify any magnetic anomalies; and
- RD 7000 Radiofrequency Detection System (RD) to attempt to identify subsurface pipes in the vicinity of the suspect vent and fill pipes.

Results of the geophysical survey concluded that no GPR or magnetic anomalies indicative of USTs or disturbed soil were identified. A detailed summary of the results for the geophysical survey conducted by GPRS is attached to this letter. The summary includes a detailed description of the equipment and methods used along with a site plan depicting the survey area.

## 5.0 CONCLUSIONS

The results of this Survey are summarized below:

- CBRE directed a geophysical survey to attempt to identify the potential for USTs on the Subject. No anomalies indicative of USTs or disturbed fill areas were identified.

CBRE's conclusions are based on the results this Survey. This Survey was intended solely to investigate the potential for USTs as requested by the Client. It was not intended to satisfy the level of inquiry that may be necessary to support remedial solutions or determine migration pathways related to a release.

GPRS SUMMARY REPORT



**GROUND  
PENETRATING  
RADAR  
SYSTEMS, INC.**

## WEST COAST REGION

Tuesday, March 29, 2016

**Mr. Steven Gustems**

**CBRE**

**Site: 915 Main Street, Pleasanton CA**

**Re: GPR Investigation to Locate UST's**

We appreciate the opportunity to provide this report for our work completed on 3.25.2016 at the above address in Pleasanton, CA.

### **Purpose**

The purpose of the survey was to determine whether any underground storage tanks (UST's) remained on the property.

### **Equipment**

- **Ground Penetrating Radar (GPR), Manufacturer: GSSI, Model: SIR-3000 processing unit with 400 MHz antenna.** GPR works by sending pulses of energy into a material and recording the strength and the time required for the return of the reflected signal. Reflections are produced when the energy pulses enter into a material with different electrical conduction properties from the material it left. The strength of the reflection is determined by the contrast in conductivity between the two materials. The total depth achieved can be as much as 8' with this antenna but can vary widely depending on the dielectric properties of the materials. For more information, please visit: <http://www.geophysical.com/Documentation/Brochures/GSSI-UtilityScanBrochure.pdf>
- **RD7000 pipe locator, Manufacturer: Radiodetection.** The RD7000 can detect the electromagnetic fields from live power or radio frequency signals. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes, risers, or tracer wires. A tone is sent through the pipe or tracer wire at a specific frequency which can then be detected by the receiver. For more information, please visit: <http://www.spx.com/en/radiodetection/pd-rd7000/>
- **Schonstedt GA-52Cx Magnetic Locator (Magnetometer).** The magnetometer detects the magnetic field of a ferromagnetic object. It responds to the difference in the magnetic field between two sensors. It is interpreted in the field by listening to changes in frequency as emitted by a speaker on the device. For more information, please visit: <http://www.schonstedt.com/products/ga-52cx/>



### **Process**

Our process begins with collecting scans with GPR across the areas in a grid pattern. Scans are typically spaced 2' apart depending on the size of the targets being searched for. The GPR data is interpreted in real time and anomalies in the data are located and marked on the surface with spray paint, pin flags, etc.

The RD7000 is used to locate pipes or utilities at the soil boring locations. We first sweep all areas with the receiver to detect live power or radio frequency signals followed by connecting to any visible risers or tracer wires that may be in the area.

### **Findings**

The site was scanned to locate any evidence of the presence of underground storage tanks over an approx. During the scanning process, the GPR equipment achieved depths of approximately 3.5' - 4'

During the GPR scanning process, GPRS did not find any evidence of UST's or excavations found on site.

Scanned area outlined and shaded with white.

Inaccessible areas are shaded in Red.

1. W. area was a fenced in dog kennel, no access.
2. E. area was a transformer and was inaccessible with GPR.



### **Limitations**

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above ground features, and utilization of services such as Dig Alert/Underground Service Alert.

There were parked cars in the area despite arriving very early, some vegetation limited scanning, and on the SW corner of the building there is wrinkled asphalt that limited the capabilities of the GPR.

The following pages include pictures of the site at time of scanning.

Signed,

A handwritten signature in black ink, appearing to read 'Jonathan Brown', is written over a light blue rectangular background.

Jonathan Brown  
Project Manager  
GPRS, Inc.  
Direct: 415-553-0129  
Fax: 419-843-5829  
[Jonathan.Brown@gp-radar.com](mailto:Jonathan.Brown@gp-radar.com)  
[www.gp-radar.com](http://www.gp-radar.com)























**Appendix I**

ETIC's Groundwater Monitoring  
Report Dated September 9, 2009

**ExxonMobil Environmental Services Company**  
4096 Piedmont Avenue #194  
Oakland, California 94611  
510 547 8196 Telephone  
510 547 8706 Facsimile

**Jennifer C. Sedlachek**  
Project Manager

**ExxonMobil**

September 9, 2009

Mr. Jerry T. Wickham  
Alameda County Health Care Services Agency  
1311 Harbor Bay Parkway  
Alameda, California 94502-6577

Subject: Former Mobil Station 04H6J, 1024 Main Street, Pleasanton, California  
ACHCSA File No. RO-2427

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Third Quarter 2009* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the July 2009 sampling event.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached report is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

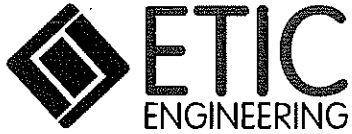
Sincerely,



Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Groundwater Monitoring Report

- c: w/ attachment:
  - Mr. Abbas Masjedi - Pleasanton Utility Planning
  - Mr. Matthew Katen - Alameda County Flood Control and Water Conservation District, Zone 7 Water Agency
  - Mr. Paul L. Hulme - Pleasanton on Main, LLC
  - Mount Diablo National Bank
  
- c: w/o attachment:
  - Mr. Bryan Campbell - ETIC Engineering, Inc.



**Report of Groundwater Monitoring  
Third Quarter 2009**

**Former Mobil Station 04H6J  
1024 Main Street  
Pleasanton, California**

Prepared for

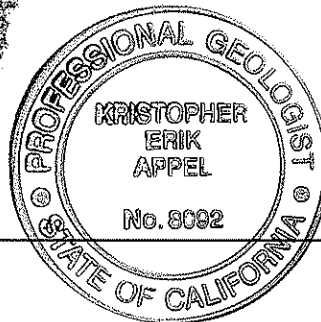
ExxonMobil Oil Corporation

Prepared by

ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, California 94523  
(925) 602-4710

A handwritten signature in black ink, appearing to read "K. Erik Appel".

K. Erik Appel, P.G. #8092  
Senior Project Geologist



*September 9, 2009*  
Date

September 2009

## SITE CONTACTS

Site Name: Former Mobil Station 04H6J

Site Address: 1024 Main Street  
Pleasanton, California

ExxonMobil Project Manager: Jennifer C. Sedlachek  
ExxonMobil Environmental Services Company  
4096 Piedmont Avenue #194  
Oakland, California 94611  
(510) 547-8196

Consultant to ExxonMobil: ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, California 94523  
(925) 602-4710

ETIC Project Manager: Hamidou Barry

Regulatory Oversight: Jerry T. Wickham  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577  
(510) 567-6700

Abbas Masjedi  
Pleasanton Utility Planning  
P.O. Box 520  
Pleasanton, California 94566  
(925) 931-5508

Matthew Katen  
Alameda County Flood Control  
and Water Conservation District  
Zone 7 Water Agency  
100 North Canyons Parkway  
Livermore, California 94551  
(925) 454-5000



## INTRODUCTION

ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for former Mobil Station 04H6J. This report presents the results for the most recent groundwater monitoring conducted at the site and summarizes recent site activities. This report covers site activities from 18 May 2009, the date of the previous monitoring event, until 21 July 2009, the date of the most recent monitoring event. Groundwater monitoring results, well construction details, and a groundwater monitoring plan are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

## GENERAL SITE INFORMATION

<b>Site name:</b>	Former Mobil Station 04H6J
<b>Site address:</b>	1024 Main Street, Pleasanton, California
<b>Current property owner:</b>	Paul L. Hulme, Pleasanton on Main, LLC
<b>Current site use:</b>	Vacant lot
<b>Current phase of project:</b>	Groundwater monitoring
<b>Tanks at site:</b>	None (four underground storage tanks removed 1989)
<b>Number of wells:</b>	19 (14 onsite, 5 offsite)

## GROUNDWATER MONITORING SUMMARY

<b>Gauging and sampling date:</b>	21 July 2009
<b>Wells gauged and sampled:</b>	MW1, MW2, MW4, MW6, MW11, RW1-RW4
<b>Wells gauged only:</b>	MW3, MW5, MW7, MW8, MW10, MW12, VMW1-VMW4
<b>Groundwater flow direction:</b>	North
<b>Groundwater gradient:</b>	0.0011
<b>Well screens submerged:</b>	MW3, MW7, VMW3, VMW4
<b>Well screens not submerged:</b>	MW1, MW2, MW4-MW6, MW8, MW10-MW12, RW1-RW4, VWM1, VMW2
<b>Liquid-phase hydrocarbons:</b>	Not observed or detected
<b>Laboratory:</b>	Calscience Environmental Laboratories, Inc., Garden Grove, California

### Analyses performed:

- Total Petroleum Hydrocarbons as gasoline by EPA Method 8015B (M)
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B
- Methyl tertiary butyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, and diisopropyl ether by EPA Method 8260B

**Additional comments:**

Groundwater samples were collected without purging wells.

Wells MW4, MW6, and MW10 were used to calculate flow direction and gradient, as these wells are screened through the same sand/gravel layer.

**ADDITIONAL ACTIVITIES PERFORMED**

Six onsite soil vapor monitoring wells were installed in June and July 2009. Soil vapor samples were collected from the new vapor wells in July 2009.

**WORK PROPOSED FOR NEXT QUARTER**

The soil vapor sampling report will be submitted to the Alameda County Health Care Services Agency (ACHCSA) in September 2009.

Groundwater will be monitored in accordance with the attached groundwater monitoring plan. The attached monitoring plan was revised in response to the ACHCSA letter dated 24 July 2009, which requested that the site be reduced from quarterly to semi-annual groundwater monitoring. Groundwater monitoring and sampling will be conducted in the first and third quarters of the year.

**Attachments:**

Figure 1: Site Map Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

Table 3: Groundwater Analytical Results for Oxygenates and Additives

Table 4: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports and Chain-of-Custody Documentation

## **Figures**



Approximate  
Groundwater Flow Direction  
Gradient = 0.0011

**LEGEND**

- Groundwater monitoring well
- Recovery well
- Destroyed monitoring well
- Soil vapor extraction well
- (342.66) Groundwater elevation (feet)
- TPH-g Total Petroleum Hydrocarbons as gasoline
- MTBE Methyl tertiary butyl ether
- 1,2-DCA 1,2-Dichloroethane

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Notes:  
Wells MW4, MW6, and MW10 were used to calculate direction and gradient, as these wells are screened through the same sand/gravel layer. (304.66) MW12

Oxygenates and additives other than MTBE shown only where detected.

Concentrations in micrograms per liter (ug/L).

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	49
MTBE (8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	<50
MTBE (8260)	<0.50

Benzene	0.62
Toluene	<0.50
Ethylbenzene	0.92
Xylenes	26
TPH-g	620
MTBE (8260)	<0.50
1,2-DCA	0.53

MW8 (341.54)

MAIN STREET

MW10 (306.75)

MW6 (306.75)

MW5 (317.90)

MW3 (341.27)

FORMER PUMP ISLANDS

VMW4 (342.50)

VMW3 (340.88)

MW7 (342.66)

MW1 (306.83)

VMW1 (331.54)

MW4 (306.86)

STANLEY BOULEVARD

FORMER UNDERGROUND STORAGE TANK CAVITY

RW2 (311.53)

MW2 (307.74)

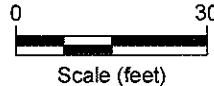
RW3 (307.14)

MW11 (314.96)

APPROXIMATE SEWER LATERAL LOCATION

FORMER USED-OIL TANK

PARKING LOT



FILENAME: 3g2009.DWG 08/07/09



SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS, FORMER MOBIL STATION 04H6J  
1024 MAIN STREET, PLEASANTON, CALIFORNIA  
21 JULY 2009

FIGURE:

1

## **Tables**

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1	a 03/21/90	350.42	PVC	55	55	9	4	35 - 55	0.020	30 - 55	No. 3 Monterey Sand
MW2	a 03/22/90	350.39	PVC	56.5	55	9	2	30 - 55	0.020	30 - 55	No. 3 Monterey Sand
MW3	a 03/23/90	350.56	PVC	36.5	35	8	2	12 - 35	0.20	12 - 35	No. 3 Monterey Sand
MW4	a 10/08/90	350.69	PVC	50	49	10	4	29 - 49	0.020	27 - 49	No. 3 Monterey Sand
MW5	b 10/08/90	350.61	PVC	35	34	10	4	14 - 34	0.020	12 - 35	No. 3 Monterey Sand
MW6	a 10/09/90	350.90	PVC	55	53	10	4	35 - 53	0.020	33 - 53	No. 3 Monterey Sand
MW7	a 10/10/90	350.47	PVC	30	30	8	2	10 - 30	0.020	8 - 30	No. 3 Monterey Sand
MW8	a 10/09/90	351.45	PVC	25	25	8	2	5 - 25	0.020	4 - 25	No. 3 Monterey Sand
MW9	c 01/31/92	348.53	PVC	56	55	12	4	25 - 55	0.010	23 - 56	No. 3 Monterey Sand
MW10	a 11/17/93	350.60	PVC	56.5	55	10.25	4	25 - 55	0.020	23 - 56.5	No. 8 Sri Supreme Sand
MW11	a 11/18/93	350.16	PVC	44.5	44	10.25	4	24 - 44	0.020	23 - 44.5	No. 8 Sri Supreme Sand
MW12	a 11/17/93	349.74	PVC	58	55	10.25	4	25 - 55	0.020	23 - 58	No. 8 Sri Supreme Sand
RW1	a 11/15/93	350.43	PVC	56.5	55	--	6	25 - 55	0.020	23 - 56.5	No. 3 Monterey Sand
RW2	a 08/30/94	350.42	PVC	56.5	54	12	6	23 - 54	0.020	22 - 56.5	No. 3 Monterey Sand
RW3	a 08/30/94	350.53	PVC	56.5	54	12	6	24 - 54	0.020	22 - 56.5	No. 3 Monterey Sand
RW4	a 08/30/94	350.92	PVC	54	51	12	6	21 - 51	0.020	21 - 54	No. 3 Monterey Sand
VMW1	a 11/15/93	350.58	PVC	35	35	10.25	4	13 - 35	0.030	13 - 35	Medium/Coarse Aquarium Sand

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
VMW2	a 11/15/93	350.42	PVC	35	35	10.25	4	15 - 35	0.030	14 - 35	Coarse Aquarium Sand
VMW3	a 11/16/93	350.77	PVC	36.5	32	10.25	4	15 - 32	0.030	14 - 32	Medium Aquarium Sand
VMW4	a 11/16/93	350.32	PVC	36.5	35	10.25	4	12 - 35	0.030	11 - 35	Medium Aquarium Sand

Notes:

- a Well surveyed on 28 November 2001 by Doble Thomas Associates.
- b Well surveyed on 21 February 2002 by Doble Thomas Associates.
- c Well destroyed.
  
- PVC Polyvinyl chloride.
- TOC Top of casing.
  
- Information not available.



TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW1	04/12/90	348.03	0.00	43.57	304.46	73	13	3	180	3,600	--	--	--
MW1	10/18/90	348.03	0.00	43.18	304.85	700	360	170	480	5,000	ND	--	--
MW1	08/06/91	348.03	0.00	38.65	309.38	310	340	110	340	2,600	--	--	--
MW1	01/08/92	348.03	0.00	38.68	309.35	270	370	18	340	2,400	--	--	--
MW1	04/30/92	348.03	0.00	39.93	308.10	150	120	12	160	1,300	--	--	--
MW1	07/31/92	348.03	0.00	43.05	304.98	ND	ND	ND	ND	ND	--	--	--
MW1	10/27/92	348.03	0.00	42.86	305.17	320	310	84	310	2,700	--	--	--
MW1	01/22/93	348.03	0.00	34.88	313.15	190	340	87	320	2,800	--	--	--
MW1	04/05/93	348.03	0.00	33.71	314.32	410	460	51	500	6,000	--	--	--
MW1	07/06/93	348.03	0.00	35.46	312.57	140	240	32	180	2,200	--	--	--
MW1	11/30/93	348.03	0.00	37.81	310.22	68	34	ND	48	450	--	--	--
MW1	01/27/94	348.03	0.00	42.10	305.93	270	330	44	190	1,000	--	--	--
MW1	04/25/94	348.03	0.00	40.33	307.70	--	--	--	--	--	--	--	--
MW1	04/26/94	348.03	--	--	--	310	370	22	320	3,500	--	--	--
MW1	07/08/94	348.03	0.00	41.39	306.64	120	87	15	43	640	--	--	--
MW1	10/05/94	348.03	0.00	42.19	305.84	110	140	21	90	970	--	--	--
MW1	02/21/95	348.03	0.00	34.73	313.30	200	270	24	100	3,500	--	--	--
MW1	05/03/95	348.03	0.00	34.67	313.36	7.8	12	4.5	20	160	--	--	--
MW1	08/04/95	348.03	0.00	37.00	311.03	99	330	40	570	1,900	--	10	--
MW1	11/10/95	348.03	0.00	39.66	308.37	150	56	22	89	610	--	--	--
MW1	02/12/96	348.03	0.00	36.19	311.84	3.0	37	7.8	140	470	--	1.3	--
MW1	05/17/96	348.03	0.00	35.82	312.21	ND	ND	ND	ND	ND	--	ND	--
MW1	08/12/96	348.03	0.00	38.44	309.59	ND	ND	ND	ND	ND	--	ND	--
MW1	11/08/96	348.03	0.00	40.07	307.96	ND	ND	ND	ND	ND	--	ND	--
MW1	02/12/97	348.03	0.00	34.27	313.76	--	--	--	--	--	--	--	--
MW1 <sup>a</sup>	03/17/97	348.03	0.00	37.07	310.96	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	05/13/97	348.03	0.00	37.76	310.27	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	08/12/97	348.03	0.00	40.68	307.35	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	10/31/97	348.03	0.00	40.90	307.13	17	62	7.9	150	740	--	ND	--
MW1 <sup>a</sup>	01/21/98	348.03	0.00	41.05	306.98	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	04/24/98	348.03	0.00	36.71	311.32	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	07/20/98	348.03	0.00	39.38	308.65	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	10/21/98	348.03	0.00	42.31	305.72	0.3	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	02/22/99	348.03	0.00	42.70	305.33	40	17	5.4	94	840	--	ND	--
MW1 <sup>a</sup>	05/27/99	348.03	0.00	41.51	306.52	ND	ND	ND	ND	ND	--	ND	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW1 <sup>a</sup>	09/16/99	348.03	0.00	43.56	304.47	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	11/15/99	348.03	0.00	43.87	304.16	ND	ND	ND	ND	ND	--	ND	--
MW1 <sup>a</sup>	03/02/00	348.03	0.00	40.88	307.15	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
MW1 <sup>a</sup>	06/06/00	348.03	0.00	42.83	305.20	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
MW1 <sup>a</sup>	08/29/00	348.03	0.00	44.82	303.21	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
MW1 <sup>a</sup>	11/07/00	348.03	0.00	43.35	304.68	0.25	<0.20	0.25	<0.60	<20	--	<0.30	--
MW1 <sup>c</sup>	01/30/01	348.03	--	--	--	--	--	--	--	--	--	--	--
MW1 <sup>a</sup>	04/19/01	348.03	0.00	43.87	304.16	<0.20	<0.20	0.28	<0.60	<20	--	<0.30	--
MW1 <sup>a</sup>	07/27/01	348.03	0.00	43.96	304.07	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
MW1 <sup>a</sup>	10/19/01	348.03	0.00	44.52	303.51	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
MW1 <sup>a</sup>	01/15/02	350.42	0.00	43.13	307.29	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW1 <sup>a</sup>	04/09/02	350.42	0.00	45.23	305.19	3.30	0.60	<0.50	<0.50	127	--	2.30	--
MW1 <sup>a</sup>	07/23/02	350.42	0.00	45.87	304.55	2.10	<0.50	<0.50	<0.50	80.1	--	0.90	--
MW1 <sup>a</sup>	10/16/02	350.42	0.00	43.49	306.93	<0.5	<0.5	<0.5	<0.5	<50.0	--	<0.5	--
MW1 <sup>a</sup>	01/09/03	350.42	0.00	41.41	309.01	1.1	<0.50	<0.50	<0.50	<50.0	--	--	<0.50
MW1 <sup>a</sup>	04/14/03	350.42	0.00	43.64	306.78	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.50
MW1 <sup>a</sup>	07/09/03	350.42	0.00	43.34	307.08	1.40	1.0	<0.5	1.1	<50	--	<0.5	<0.5
MW1 <sup>a</sup>	10/01/03	350.42	0.00	44.04	306.38	1.00	<0.5	<0.5	<0.5	<50	--	<0.5	<0.5
MW1 <sup>a</sup>	01/19/04	350.42	0.00	44.22	306.20	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW1 <sup>a</sup>	04/01/04	350.42	0.00	43.82	306.60	<1.0	6.0	1.0	7.8	<100	--	--	<0.5
MW1 <sup>a</sup>	07/07/04	350.42	0.00	44.06	306.36	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW1 <sup>a</sup>	10/12/04	350.42	0.00	44.74	305.68	<0.5	2.9	0.6	4.5	82.4	--	--	<0.5
MW1 <sup>a</sup>	01/05/05	350.42	0.00	44.40	306.02	<0.5	<0.5	<0.5	<0.5	52.3	--	--	<0.5
MW1 <sup>a</sup>	04/14/05	350.42	0.00	40.24	310.18	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW1 <sup>a</sup>	07/14/05	350.42	0.00	43.01	307.41	111	--	1.60	0.7	1.2	<0.5	--	<0.5
MW1 <sup>a</sup>	10/17/05	350.42	0.00	43.91	306.51	<0.5	0.55	1.20	1.34	80.1	--	--	<0.5
MW1 <sup>a</sup>	01/10/06	350.42	0.00	42.02	308.40	1.8	1.2	14	23	300	--	--	<0.5
MW1 <sup>a</sup>	04/05/06	350.42	0.00	40.02	310.40	4.7	78	300	690	3,100	--	--	<0.500
MW1 <sup>a</sup>	07/05/06	350.42	0.00	38.05	312.37	<0.50	1.16	6.57	22.0	142	--	--	<0.500
MW1 <sup>a</sup>	10/04/06	350.42	0.00	41.07	309.35	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW1 <sup>a</sup>	01/02/07	350.42	0.00	40.96	309.46	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW1 <sup>a</sup>	04/03/07	350.42	0.00	38.61	311.81	<0.50	1.65	1.90	39.1	267	--	--	<0.500
MW1 <sup>a</sup>	08/27/07	350.42	0.00	42.01	308.41	<0.50	<0.50	<0.50	<0.50	50.6	--	--	<0.500
MW1 <sup>a</sup>	11/21/07	350.42	0.00	40.77	309.65	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW1 <sup>a</sup>	03/18/08	350.42	0.00	37.70	312.72	<0.50	5.88	20.4	149	682	--	--	<0.500

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW1 <sup>a</sup>	06/06/08	350.42	0.00	39.20	311.22	<0.50	<0.50	<0.50	3.3	<50	--	--	<0.50
MW1 <sup>a</sup>	09/09/08	350.42	0.00	42.89	307.53	<0.50	2.0	9.9	450	1,900	--	--	<0.50
MW1 <sup>a</sup>	12/16/08	350.42	0.00	43.85	306.57	<0.50	0.75	2.6	5.2	54	--	--	<0.50
MW1 <sup>a</sup>	02/10/09	350.42	0.00	43.12	307.30	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW1 <sup>a</sup>	05/18/09	350.42	0.00	41.70	308.72	<0.50	<0.50	0.97	7.6	56	--	--	<0.50
<b>MW1<sup>a</sup></b>	<b>07/21/09</b>	<b>350.42</b>	<b>0.00</b>	<b>43.59</b>	<b>306.83</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	--	--	<b>&lt;0.50</b>
MW2	04/12/90	348.45	0.00	44.14	304.31	5,500	7,600	1,900	7,800	64,000	--	--	--
MW2	10/18/90	348.45	0.00	43.18	305.27	6,800	9,100	2,400	11,000	83,000	10,000	--	--
MW2	08/06/91	348.45	0.00	39.19	309.26	16,000	25,000	4,300	19,000	160,000	--	--	--
MW2	01/08/92	348.45	0.02	39.40	309.07	--	--	--	--	--	--	--	--
MW2	04/30/92	348.45	0.00	40.50	307.95	9,200	19,000	3,700	15,000	71,000	--	--	--
MW2	07/31/92	348.45	0.15	43.64	304.92	--	--	--	--	--	--	--	--
MW2	10/27/92	348.45	Trace	43.53	304.92	--	--	--	--	--	--	--	--
MW2	01/22/93	348.45	Trace	35.55	312.90	--	--	--	--	--	--	--	--
MW2	04/05/93	348.45	Trace	34.41	314.04	--	--	--	--	--	--	--	--
MW2	07/06/93	348.45	Trace	35.98	312.47	--	--	--	--	--	--	--	--
MW2	11/30/93	348.45	0.48	38.78	310.03	--	--	--	--	--	--	--	--
MW2	01/27/94	348.45	0.01	42.50	305.96	--	--	--	--	--	--	--	--
MW2	04/25/94	348.45	Trace	40.32	308.13	--	--	--	--	--	--	--	--
MW2	07/08/94	348.45	Trace	42.46	305.99	--	--	--	--	--	--	--	--
MW2	10/05/94	348.45	Trace	42.78	305.67	--	--	--	--	--	--	--	--
MW2	02/21/95	348.45	0.12	34.88	313.66	--	--	--	--	--	--	--	--
MW2	05/03/95	348.45	0.62	35.30	313.62	--	--	--	--	--	--	--	--
MW2	08/04/95	348.45	0.20	37.21	311.39	--	--	--	--	--	--	--	--
MW2	11/10/95	348.45	0.24	39.87	308.76	--	--	--	--	--	--	--	--
MW2	02/12/96	348.45	Trace	36.16	312.29	--	--	--	--	--	--	--	--
MW2	05/17/96	348.45	0.00	35.95	312.50	950	3,000	940	6,500	57,000	--	ND	--
MW2	08/12/96	348.45	0.00	38.45	310.00	18,000	16,000	1,700	10,000	86,000	--	ND	--
MW2	11/08/96	348.45	0.01	40.27	308.19	--	--	--	--	--	--	--	--
MW2	02/12/97	348.45	0.00	34.37	314.08	--	--	--	--	--	--	--	--
MW2 <sup>c</sup>	03/17/97	348.45	--	--	--	--	--	--	--	--	--	--	--
MW2 <sup>a</sup>	05/13/97	348.45	0.00	37.74	310.71	12,000	14,000	1,300	8,100	87,000	--	ND	--
MW2	08/12/97	348.45	0.04	40.73	307.75	--	--	--	--	--	--	--	--
MW2 <sup>a</sup>	10/31/97	348.45	0.00	41.12	307.33	320	450	300	760	11,000	--	280	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW2 <sup>a</sup>	01/21/98	348.45	0.00	40.75	307.70	300	750	180	2,500	27,000	--	ND	ND
MW2 <sup>a</sup>	04/24/98	348.45	0.00	36.48	311.97	37	110	110	1,300	11,000	--	72	--
MW2 <sup>a</sup>	07/20/98	348.45	0.00	39.38	309.07	3,200	2,500	510	1,800	23,000	--	ND	--
MW2	10/21/98	348.45	--	Dry	--	--	--	--	--	--	--	--	--
MW2 <sup>a</sup>	02/22/99	348.45	0.00	41.26	307.19	660	370	250	1,000	14,000	--	ND	--
MW2 <sup>a</sup>	05/27/99	348.45	0.00	41.57	306.88	930	460	350	1,300	12,000	--	ND	ND
MW2 <sup>a</sup>	09/16/99	348.45	0.00	43.61	304.84	220	100	300	300	13,000	--	99	--
MW2 <sup>a</sup>	11/15/99	348.45	0.00	43.71	304.74	<100	<50	86	140	8,800	--	49	<5
MW2 <sup>a</sup>	03/02/00	348.45	0.00	40.90	307.55	250	180	220	1,200	11,000	--	<50	--
MW2 <sup>a</sup>	06/06/00	348.45	0.00	42.68	305.77	290	68	250	100	8,400	--	<10	--
MW2 <sup>a</sup>	08/29/00	348.45	0.00	44.98	303.47	170	86	440	250	14,000	--	<10	--
MW2 <sup>a</sup>	11/07/00	348.45	0.00	43.46	304.99	120	43	250	150	18,000	--	110	<5
MW2 <sup>a</sup>	01/30/01	348.45	0.00	44.73	303.72	220	74	690	240	18,000	--	<250	--
MW2 <sup>a</sup>	04/19/01	348.45	0.00	43.95	304.50	150	37	440	80	19,000	--	<200	<5
MW2 <sup>a</sup>	07/27/01	348.45	0.00	44.10	304.35	37	<20	220	20	6,900	--	<5.0	--
MW2 <sup>a</sup>	10/19/01	348.45	0.00	44.67	303.78	110	24	600	72	13,000	--	<3.0	--
MW2 <sup>a</sup>	01/15/02	350.39	0.00	43.14	307.25	390	230	210	450	7,280	--	150	<0.5
MW2 <sup>a</sup>	04/09/02	350.39	0.00	45.34	305.05	152	42.0	411	104	11,200	--	206	<2.5
MW2 <sup>a</sup>	07/23/02	350.39	0.00	45.91	304.48	107	15.5	383	54	18,700	--	112	<1.0
MW2 <sup>a</sup>	10/16/02	350.39	0.00	43.59	306.80	17.7	8.6	12.2	28.5	1,270	--	12.8	<0.50
MW2 <sup>a</sup>	01/09/03	350.39	0.00	41.46	308.93	256.0	371.0	506	1,250.0	11,800	--	--	<0.50
MW2 <sup>a</sup>	04/14/03	350.39	0.00	43.73	306.66	89.0	9.5	143	11.0	4,940	--	--	<0.50
MW2 <sup>a</sup>	07/09/03	350.39	0.00	43.35	307.04	22.8	8.6	20.4	8.1	1,100	--	15.7	<0.5
MW2 <sup>a</sup>	10/01/03	350.39	0.00	44.16	306.23	43.7	6.0	51.2	6.8	3,280	--	33.4	<0.5
MW2 <sup>a</sup>	01/19/04	350.39	0.00	44.26	306.13	87.9	8.3	144	11.4	4,330	--	--	<0.5
MW2 <sup>a</sup>	04/01/04	350.39	0.00	43.76	306.63	7.00	3.2	7.7	5.2	494	--	--	<0.5
MW2 <sup>a</sup>	07/07/04	350.39	0.00	44.10	306.29	36.5	4.6	9.1	5.6	2,300	--	--	<0.5
MW2 <sup>a</sup>	10/12/04	350.39	0.00	44.52	305.87	31.6	14.1	12.1	12.5	2,770	--	--	<0.5
MW2 <sup>a</sup>	01/05/05	350.39	0.00	43.83	306.56	84.9	27.2	32.0	37.7	19,300	--	--	<0.5
MW2 <sup>a</sup>	04/14/05	350.39	0.00	40.23	310.16	4.20	<0.5	14.3	6.7	1,250	--	--	<0.5
MW2 <sup>a</sup>	07/14/05	350.39	0.00	43.01	307.38	1,150	--	41.5	3.3	116	27.0	--	<0.5
MW2 <sup>a</sup>	10/17/05	350.39	0.00	43.41	306.98	6.86	3.52	1.03	3.36	554	--	--	<0.5
MW2 <sup>a</sup>	01/10/06	350.39	0.00	41.55	308.84	2.6	0.56	<0.5	2.6	130	--	--	<0.5
MW2 <sup>a</sup>	04/05/06	350.39	0.00	39.62	310.77	3.5	0.52	14	17	1,400	--	--	<0.500
MW2 <sup>a</sup>	07/05/06	350.39	0.00	38.16	312.23	2.23	0.58	26.9	9.81	1,710	--	--	<0.500

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW2 <sup>a</sup>	10/04/06	350.39	0.00	40.64	309.75	5.14	1.39	21.9	12.1	574	--	--	<0.500
MW2 <sup>a</sup>	01/02/07	350.39	0.00	40.83	309.56	9.31	2.61	467	194	5,790	--	--	<0.500
MW2 <sup>a</sup>	04/03/07	350.39	0.00	37.98	312.41	19.3	<0.50	7.56	38.1	3,200	--	--	<0.500
MW2 <sup>a</sup>	08/27/07	350.39	0.00	41.51	308.88	5.46	1.78	11.1	10.6	544	--	--	<0.500
MW2 <sup>a</sup>	11/21/07	350.39	0.00	40.61	309.78	3.7	<0.50	18	26	1,400	--	--	<0.50
MW2 <sup>a</sup>	03/18/08	350.39	0.00	37.45	312.94	<0.50	<0.50	<0.50	2.30	94.8	--	--	<0.500
MW2 <sup>a</sup>	06/06/08	350.39	0.00	38.55	311.84	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW2 <sup>a</sup>	09/09/08	350.39	0.00	42.88	307.51	8.3	0.68	4.3	17	540	--	--	<0.50
MW2 <sup>a</sup>	12/16/08	350.39	0.00	43.39	307.00	2.3 <sup>g</sup>	<0.50	<0.50	<0.50	110	--	--	<0.50
MW2 <sup>a</sup>	02/10/09	350.39	0.00	42.85	307.54	<0.50	<0.50	<0.50	2.2	530	--	--	<0.50
MW2 <sup>a</sup>	05/18/09	350.39	0.00	41.69	308.70	1.3	<0.50	28	110	1,900	--	--	<0.50
<b>MW2<sup>a</sup></b>	<b>07/21/09</b>	<b>350.39</b>	<b>0.00</b>	<b>42.65</b>	<b>307.74</b>	<b>0.62</b>	<b>&lt;0.50</b>	<b>0.92</b>	<b>26</b>	<b>620</b>	--	--	<b>&lt;0.50</b>
MW3	04/12/90	347.97	0.00	23.18	324.79	32	56	31	170	2,100	--	--	--
MW3	10/18/90	347.97	0.00	14.28	333.69	3	3	1	5	110	ND	--	--
MW3	08/06/91	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	01/08/92	347.97	0.00	32.36	315.61	8.9	26	8.5	72	680	--	--	--
MW3	04/30/92	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	07/31/92	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	10/27/92	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	01/22/93	347.97	0.00	27.30	320.67	240	300	170	440	2,600	--	--	--
MW3	04/05/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	07/06/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	11/30/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	01/27/94	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	04/25/94	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	07/08/94	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	02/21/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	05/03/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	08/04/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	11/10/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	02/12/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	05/17/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	08/12/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3	11/08/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW3	02/12/97	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW3 <sup>a</sup>	03/17/97	347.97	0.00	22.39	325.58	ND	ND	ND	ND	ND	--	ND	--
MW3 <sup>a</sup>	05/13/97	347.97	0.00	22.18	325.79	ND	ND	ND	ND	ND	--	ND	--
MW3 <sup>a</sup>	08/12/97	347.97	0.00	18.56	329.41	ND	ND	ND	ND	ND	--	ND	--
MW3	10/31/97	347.97	0.00	17.81	330.16	--	--	--	--	--	--	--	--
MW3	01/21/98	347.97	0.00	18.81	329.16	--	--	--	--	--	--	--	--
MW3	04/24/98	347.97	0.00	16.81	331.16	--	--	--	--	--	--	--	--
MW3	07/20/98	347.97	0.00	18.00	329.97	--	--	--	--	--	--	--	--
MW3	10/21/98	347.97	0.00	19.37	328.60	--	--	--	--	--	--	--	--
MW3	02/22/99	347.97	0.00	19.82	328.15	--	--	--	--	--	--	--	--
MW3	05/27/99	347.97	0.00	18.34	329.63	--	--	--	--	--	--	--	--
MW3	09/16/99	347.97	0.00	18.53	329.44	--	--	--	--	--	--	--	--
MW3	11/15/99	347.97	0.00	20.40	327.57	--	--	--	--	--	--	--	--
MW3	03/02/00	347.97	0.00	18.02	329.95	--	--	--	--	--	--	--	--
MW3	06/06/00	347.97	0.00	18.33	329.64	--	--	--	--	--	--	--	--
MW3	08/29/00	347.97	0.00	17.31	330.66	--	--	--	--	--	--	--	--
MW3	11/07/00	347.97	0.00	17.67	330.30	--	--	--	--	--	--	--	--
MW3	01/30/01	347.97	0.00	16.61	331.36	--	--	--	--	--	--	--	--
MW3	04/19/01	347.97	0.00	16.52	331.45	--	--	--	--	--	--	--	--
MW3	07/27/01	347.97	0.00	16.52	331.45	--	--	--	--	--	--	--	--
MW3	10/19/01	347.97	0.00	16.75	331.22	--	--	--	--	--	--	--	--
MW3	01/15/02	350.56	0.00	16.66	333.90	--	--	--	--	--	--	--	--
MW3	04/09/02	350.56	0.00	14.83	335.73	--	--	--	--	--	--	--	--
MW3	07/23/02	350.56	0.00	17.60	332.96	--	--	--	--	--	--	--	--
MW3	10/16/02	350.56	0.00	18.24	332.32	--	--	--	--	--	--	--	--
MW3	01/09/03	350.56	0.00	17.83	332.73	--	--	--	--	--	--	--	--
MW3	04/14/03	350.56	0.00	14.98	335.58	--	--	--	--	--	--	--	--
MW3	07/09/03	350.56	0.00	15.79	334.77	--	--	--	--	--	--	--	--
MW3	10/01/03	350.56	0.00	14.89	335.67	--	--	--	--	--	--	--	--
MW3	01/19/04	350.56	0.00	13.56	337.00	--	--	--	--	--	--	--	--
MW3	04/01/04	350.56	0.00	29.62	320.94	--	--	--	--	--	--	--	--
MW3	07/07/04	350.56	0.00	11.63	338.93	--	--	--	--	--	--	--	--
MW3	10/12/04	350.56	0.00	10.38	340.18	--	--	--	--	--	--	--	--
MW3	01/05/05	350.56	0.00	10.01	340.55	--	--	--	--	--	--	--	--
MW3	04/14/05	350.56	0.00	9.70	340.86	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW3	07/14/05	350.56	0.00	9.74	340.82	--	--	--	--	--	--	--	--
MW3	10/17/05	350.56	0.00	10.04	340.52	--	--	--	--	--	--	--	--
MW3	01/10/06	350.56	0.00	9.81	340.75	--	--	--	--	--	--	--	--
MW3	04/05/06	350.56	0.00	9.25	341.31	--	--	--	--	--	--	--	--
MW3	07/05/06	350.56	0.00	9.51	341.05	--	--	--	--	--	--	--	--
MW3	10/04/06	350.56	0.00	10.72	339.84	--	--	--	--	--	--	--	--
MW3	01/02/07	350.56	0.00	10.67	339.89	--	--	--	--	--	--	--	--
MW3	04/03/07	350.56	0.00	10.10	340.46	--	--	--	--	--	--	--	--
MW3	08/27/07	350.56	0.00	8.99	341.57	--	--	--	--	--	--	--	--
MW3	11/21/07	350.56	0.00	10.00	340.56	--	--	--	--	--	--	--	--
MW3	03/18/08	350.56	0.00	9.45	341.11	--	--	--	--	--	--	--	--
MW3	06/06/08	350.56	0.00	9.56	341.00	--	--	--	--	--	--	--	--
MW3	09/09/08	350.56	0.00	8.96	341.60	--	--	--	--	--	--	--	--
MW3	12/16/08	350.56	0.00	7.90	342.66	--	--	--	--	--	--	--	--
MW3	02/10/09	350.56	0.00	8.42	342.14	--	--	--	--	--	--	--	--
MW3	05/18/09	350.56	0.00	8.62	341.94	--	--	--	--	--	--	--	--
<b>MW3</b>	<b>07/21/09</b>	<b>350.56</b>	<b>0.00</b>	<b>9.29</b>	<b>341.27</b>	--	--	--	--	--	--	--	--
MW4	10/18/90	348.07	0.00	43.16	304.91	180	500	200	1,200	9,600	2,000	--	--
MW4	08/06/91	348.07	0.00	38.65	309.42	320	420	220	650	8,600	--	--	--
MW4	01/08/92	348.07	0.00	38.65	309.42	600	880	220	1,100	3,400	--	--	--
MW4	04/30/92	348.07	0.00	39.88	308.19	650	1,200	210	1,200	7,200	--	--	--
MW4	07/31/92	348.07	0.00	43.07	305.00	320	340	120	360	3,800	--	--	--
MW4	10/27/92	348.07	0.00	42.78	305.29	440	750	190	900	9,000	--	--	--
MW4	01/22/93	348.07	0.00	34.76	313.31	540	1,200	320	1,900	12,000	--	--	--
MW4	04/05/93	348.07	0.00	33.61	314.46	34	18	12	31	1,100	--	--	--
MW4	07/06/93	348.07	0.00	35.37	312.70	220	300	43	440	4,000	--	--	--
MW4	11/30/93	348.07	0.00	37.78	310.29	140	83	54	110	1,400	--	--	--
MW4	01/27/94	348.07	0.00	42.10	305.97	140	75	24	94	910	--	--	--
MW4	04/25/94	348.07	0.00	40.28	307.79	--	--	--	--	--	--	--	--
MW4	04/26/94	348.07	--	--	--	1,200	1,800	580	2,500	27,000	--	--	--
MW4	07/08/94	348.07	0.00	41.38	306.69	57	47	17	43	540	--	--	--
MW4	10/05/94	348.07	0.00	42.17	305.90	230	280	73	210	3,200	--	--	--
MW4	02/21/95	348.07	0.02	34.87	313.22	--	--	--	--	--	--	--	--
MW4	05/03/95	348.07	0.00	34.81	313.26	--	--	--	--	--	--	--	--



TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW4	05/04/95	348.07	--	--	--	100	200	50	240	1,700	--	--	--
MW4	08/04/95	348.07	0.00	37.18	310.89	92	67	49	150	2,500	--	12	--
MW4	11/10/95	348.07	0.00	39.86	308.21	1,100	590	420	1,200	11,000	--	--	--
MW4	02/12/96	348.07	0.00	36.38	311.69	4.5	2.4	ND	2.8	77	--	17	--
MW4	05/17/96	348.07	0.00	36.00	312.07	50	ND	ND	8.9	470	--	ND	--
MW4	08/12/96	348.07	0.00	38.63	309.44	830	180	160	250	4,000	--	ND	--
MW4	11/08/96	348.07	0.00	40.28	307.79	160	35	41	110	1,100	--	ND	--
MW4	02/12/97	348.07	0.00	34.45	313.62	--	--	--	--	--	--	--	--
MW4 <sup>a</sup>	03/17/97	348.07	0.00	37.25	310.82	200	40	54	74	2,100	--	ND	--
MW4 <sup>a</sup>	05/13/97	348.07	0.00	37.92	310.15	320	72	67	100	2,200	--	ND	--
MW4 <sup>a</sup>	08/12/97	348.07	0.00	40.87	307.20	310	31	59	68	2,200	--	ND	--
MW4 <sup>a</sup>	10/31/97	348.07	0.00	41.21	306.86	160	ND	15	28	1,000	--	ND	--
MW4 <sup>a</sup>	01/21/98	348.07	0.00	41.20	306.87	17	2.4	27	5.3	610	--	ND	--
MW4 <sup>a</sup>	04/24/98	348.07	0.00	36.90	311.17	5.0	1.2	3.0	ND	460	--	ND	--
MW4 <sup>a</sup>	07/20/98	348.07	0.00	39.56	308.51	79	12	40	16	1,700	--	ND	--
MW4 <sup>a</sup>	10/21/98	348.07	0.00	40.51	307.56	200	59	51	90	2,000	--	ND	--
MW4 <sup>a</sup>	02/22/99	348.07	0.00	41.46	306.61	45	21	6.3	100	920	--	ND	--
MW4 <sup>a</sup>	05/27/99	348.07	0.00	41.71	306.36	67	9.0	4.7	40	670	--	ND	--
MW4 <sup>a</sup>	09/16/99	348.07	0.00	43.71	304.36	150	34	6.2	150	3,000	--	ND	--
MW4 <sup>a</sup>	11/15/99	348.07	0.00	44.15	303.92	ND	ND	ND	ND	ND	--	ND	--
MW4 <sup>a</sup>	03/02/00	348.07	0.00	41.08	306.99	10	0.69	<0.30	6.5	240	--	<10	--
MW4 <sup>a</sup>	06/06/00	348.07	0.00	43.09	304.98	<0.20	0.26	<0.20	<0.60	<20	--	<0.30	--
MW4 <sup>a</sup>	08/29/00	348.07	0.00	45.05	303.02	16	14	12	20	620	--	<10	--
MW4 <sup>a</sup>	11/07/00	348.07	0.00	43.65	304.42	10	5.2	7.7	51	410	--	<5.0	--
MW4 <sup>a</sup>	01/30/01	348.07	0.00	44.81	303.26	15	5.4	16	56	350	--	<1.0	--
MW4 <sup>a</sup>	04/19/01	348.07	0.00	44.10	303.97	12	3.4	11	50	330	--	<5.0	--
MW4 <sup>a</sup>	07/27/01	348.07	0.00	44.20	303.87	24	5.8	7.6	77	420	--	<0.30	--
MW4 <sup>a</sup>	10/19/01	348.07	0.00	44.75	303.32	22	9.2	23	130	680	--	<0.30	--
MW4 <sup>a</sup>	01/15/02	350.69	0.00	43.35	307.34	9.10	4.20	7.90	56.0	420	--	1.00	<0.5
MW4 <sup>a</sup>	04/09/02	350.69	0.00	45.47	305.22	15.2	8.50	13.8	94.1	626	--	0.90	--
MW4 <sup>a</sup>	07/23/02	350.69	0.00	46.09	304.60	18.4	9.60	17.2	88.7	775	--	2.10	--
MW4 <sup>a</sup>	10/16/02	350.69	0.00	43.71	306.98	16.6	7.5	3.8	76.4	480	--	<0.5	--
MW4 <sup>a</sup>	01/09/03	350.69	0.00	41.63	309.06	23.3	20.4	15.8	132.0	1,120	--	--	<0.50
MW4 <sup>a</sup>	04/14/03	350.69	0.00	43.85	306.84	23.0	13.6	8.6	106.0	783	--	--	<0.50
MW4 <sup>a</sup>	07/09/03	350.69	0.00	43.56	307.13	49.5	27.6	21.3	227	1,570	--	3.1	<0.5

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW4 <sup>a</sup>	10/01/03	350.69	0.00	44.27	306.42	33.2	7.8	5.4	75.9	823	--	1.1	<0.5
MW4 <sup>a</sup>	01/19/04	350.69	0.00	44.48	306.21	75.3	15.3	2.3	233	2,360	--	--	<0.5
MW4 <sup>a</sup>	04/01/04	350.69	0.00	44.06	306.63	78.8	20.0	22.5	218	2,700	--	--	<0.5
MW4 <sup>a</sup>	07/07/04	350.69	0.00	44.30	306.39	70.2	6.9	18.7	146	1,410	--	--	<0.5
MW4 <sup>a</sup>	10/12/04	350.69	0.00	44.98	305.71	35.4	3.6	1.0	8.1	734	--	--	<0.5
MW4 <sup>a</sup>	01/05/05	350.69	0.00	44.58	306.11	45.8	11.2	1.0	68.1	1,100	--	--	<0.5
MW4 <sup>a</sup>	04/14/05	350.69	0.00	40.44	310.25	2.00	1.3	0.6	15.1	193	--	--	<0.5
MW4 <sup>a</sup>	07/14/05	350.69	0.00	43.25	307.44	85.0	--	1.70	<0.5	<0.5	<0.5	--	<0.5
MW4 <sup>a</sup>	10/17/05	350.69	0.00	44.12	306.57	<0.5	<0.5	<0.5	0.64	95.3	--	--	<0.5
MW4 <sup>a</sup>	01/10/06	350.69	0.00	42.25	308.44	<0.5	1.4	<0.5	1.2	67	--	--	<0.5
MW4 <sup>a</sup>	04/05/06	350.69	0.00	40.20	310.49	<0.50	<0.50	<0.50	5.5	120	--	--	<0.500
MW4 <sup>a</sup>	07/05/06	350.69	0.00	38.28	312.41	0.64	<0.50	5.51	2.62	182	--	--	<0.500
MW4 <sup>a</sup>	10/04/06	350.69	0.00	41.16	309.53	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW4 <sup>a</sup>	01/02/07	350.69	0.00	41.11	309.58	<0.50	<0.50	0.72	<0.50	<50.0	--	--	<0.500
MW4 <sup>a</sup>	04/03/07	350.69	0.00	38.75	311.94	<0.50	<0.50	6.18	15.1	280	--	--	<0.500
MW4 <sup>a</sup>	08/27/07	350.69	0.00	42.00	308.69	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW4 <sup>a</sup>	11/21/07	350.69	0.00	40.88	309.81	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW4 <sup>a</sup>	03/18/08	350.69	0.00	37.69	313.00	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW4 <sup>a</sup>	06/06/08	350.69	0.00	39.25	311.44	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW4 <sup>a</sup>	09/09/08	350.69	0.00	43.10	307.59	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW4 <sup>a</sup>	12/16/08	350.69	0.00	44.06	306.63	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW4 <sup>a</sup>	02/10/09	350.69	0.00	43.40	307.29	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW4 <sup>a</sup>	05/18/09	350.69	0.00	41.98	308.71	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
<b>MW4<sup>a</sup></b>	<b>07/21/09</b>	<b>350.69</b>	<b>0.00</b>	<b>43.83</b>	<b>306.86</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>49<sup>h</sup></b>	--	--	<b>&lt;0.50</b>
MW5	10/18/90	347.97	--	c	--	--	--	--	--	--	--	--	--
MW5	08/06/91	347.97	0.00	34.25	313.72	--	--	--	--	--	--	--	--
MW5	01/08/92	347.97	0.00	34.22	313.75	--	--	--	--	--	--	--	--
MW5	04/30/92	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	07/31/92	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	10/27/92	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	01/22/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	04/05/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	07/06/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	11/30/93	347.97	--	Dry	--	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)							
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)
MW5	01/27/94	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	04/25/94	347.97	0.00	34.23	313.74	--	--	--	--	--	--	--	--
MW5	07/08/94	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	02/21/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	05/03/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	08/04/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	11/10/95	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	02/12/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	05/17/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	08/12/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	11/08/96	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	02/12/97	347.97	--	Dry	--	--	--	--	--	--	--	--	--
MW5	03/17/97	347.97	0.00	34.21	313.76	--	--	--	--	--	--	--	--
MW5	05/13/97	347.97	--	--	--	--	--	--	--	--	--	--	--
MW5 <sup>d</sup>	08/12/97	347.97	0.00	34.22	313.75	--	--	--	--	--	--	--	--
MW5	10/31/97	347.97	0.00	34.19	313.78	--	--	--	--	--	--	--	--
MW5	01/21/98	347.97	0.00	31.25	316.72	--	--	--	--	--	--	--	--
MW5	04/24/98	347.97	0.00	34.21	313.76	--	--	--	--	--	--	--	--
MW5	07/20/98	347.97	0.00	34.21	313.76	--	--	--	--	--	--	--	--
MW5	10/21/98	347.97	0.00	34.20	313.77	--	--	--	--	--	--	--	--
MW5	02/22/99	347.97	0.00	34.25	313.72	--	--	--	--	--	--	--	--
MW5	05/27/99	347.97	0.00	34.01	313.96	--	--	--	--	--	--	--	--
MW5	09/16/99	347.97	0.00	34.10	313.87	--	--	--	--	--	--	--	--
MW5	11/15/99	347.97	0.00	35.21	312.76	--	--	--	--	--	--	--	--
MW5 <sup>c</sup>	03/02/00	347.97	--	--	--	--	--	--	--	--	--	--	--
MW5 <sup>c</sup>	06/06/00	347.97	--	--	--	--	--	--	--	--	--	--	--
MW5	08/29/00	347.97	0.00	33.95	314.02	--	--	--	--	--	--	--	--
MW5	11/07/00	347.97	0.00	33.99	313.98	--	--	--	--	--	--	--	--
MW5	01/30/01	347.97	0.00	33.84	314.13	--	--	--	--	--	--	--	--
MW5	04/19/01	347.97	0.00	33.62	314.35	--	--	--	--	--	--	--	--
MW5	07/27/01	347.97	0.00	33.65	314.32	--	--	--	--	--	--	--	--
MW5	10/19/01	347.97	0.00	33.75	314.22	--	--	--	--	--	--	--	--
MW5 <sup>c</sup>	01/15/02	--	0.00	33.80	--	--	--	--	--	--	--	--	--
MW5	04/09/02	350.61	0.00	33.47	317.14	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW5	07/23/02	350.61	0.00	34.05	316.56	--	--	--	--	--	--	--	--
MW5	10/16/02	350.61	0.00	34.11	316.50	--	--	--	--	--	--	--	--
MW5	01/09/03	350.61	0.00	34.02	316.59	--	--	--	--	--	--	--	--
MW5	04/14/03	350.61	0.00	33.38	317.23	--	--	--	--	--	--	--	--
MW5	07/09/03	350.61	0.00	33.43	317.18	--	--	--	--	--	--	--	--
MW5	10/01/03	350.61	0.00	33.42	317.19	--	--	--	--	--	--	--	--
MW5	01/19/04	350.61	0.00	33.34	317.27	--	--	--	--	--	--	--	--
MW5	04/01/04	350.61	0.00	33.31	317.30	--	--	--	--	--	--	--	--
MW5	07/07/04	350.61	0.00	33.18	317.43	--	--	--	--	--	--	--	--
MW5	10/12/04	350.61	0.00	33.14	317.47	--	--	--	--	--	--	--	--
MW5	01/05/05	350.61	0.00	33.19	317.42	--	--	--	--	--	--	--	--
MW5	04/14/05	350.61	0.00	33.15	317.46	--	--	--	--	--	--	--	--
MW5	07/14/05	350.61	0.00	33.02	317.59	--	--	--	--	--	--	--	--
MW5	10/17/05	350.61	0.00	33.12	317.49	--	--	--	--	--	--	--	--
MW5	01/10/06	350.61	0.00	33.09	317.52	--	--	--	--	--	--	--	--
MW5	04/05/06	350.61	0.00	32.85	317.76	--	--	--	--	--	--	--	--
MW5	07/05/06	350.61	0.00	33.03	317.58	--	--	--	--	--	--	--	--
MW5	10/04/06	350.61	0.00	33.15	317.46	--	--	--	--	--	--	--	--
MW5	01/02/07	350.61	0.00	33.07	317.54	--	--	--	--	--	--	--	--
MW5	04/03/07	350.61	0.00	33.00	317.61	--	--	--	--	--	--	--	--
MW5	08/27/07	350.61	0.00	33.17	317.44	--	--	--	--	--	--	--	--
MW5	11/21/07	350.61	0.00	33.34	317.27	--	--	--	--	--	--	--	--
MW5	03/18/08	350.61	0.00	32.88	317.73	--	--	--	--	--	--	--	--
MW5	06/06/08	350.61	0.00	32.90	317.71	--	--	--	--	--	--	--	--
MW5	09/09/08	350.61	0.00	33.10	317.51	--	--	--	--	--	--	--	--
MW5	12/16/08	350.61	0.00	32.85	317.76	--	--	--	--	--	--	--	--
MW5	02/10/09	350.61	0.00	32.58	318.03	--	--	--	--	--	--	--	--
MW5	05/18/09	350.61	0.00	23.10	327.51	--	--	--	--	--	--	--	--
<b>MW5</b>	<b>07/21/09</b>	<b>350.61</b>	<b>0.00</b>	<b>32.71</b>	<b>317.90</b>	--	--	--	--	--	--	--	--
MW6	10/18/90	348.23	0.00	43.60	304.63	1,300	150	120	85	3,000	ND	--	--
MW6	08/06/91	348.23	0.00	39.07	309.16	220	10	5.2	14	1,600	--	--	--
MW6	01/08/92	348.23	0.00	39.18	309.05	81	3.9	4.5	2.9	370	--	--	--
MW6	04/30/92	348.23	0.00	40.46	307.77	180	8.4	6.8	3.3	610	--	--	--
MW6	07/31/92	348.23	0.00	43.61	304.62	1,500	1,500	370	1,100	96	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW6	10/27/92	348.23	0.00	43.68	304.55	27	ND	6	10	9,400	--	--	--
MW6	01/22/93	348.23	0.00	35.66	312.57	12	2.4	1.4	1.9	250	--	--	--
MW6	04/05/93	348.23	0.00	34.41	313.82	2.3	0.99	ND	0.5	190	--	--	--
MW6	07/06/93	348.23	0.00	36.01	312.22	1.4	0.54	ND	ND	99	--	--	--
MW6	11/30/93	348.23	0.00	38.36	309.87	9.1	ND	ND	ND	86	--	--	--
MW6	01/27/94	348.23	0.00	42.57	305.66	1.7	ND	ND	ND	140	--	--	--
MW6	04/25/94	348.23	0.00	40.77	307.46	--	--	--	--	--	--	--	--
MW6	04/26/94	348.23	--	--	--	40	ND	ND	ND	330	--	--	--
MW6	07/08/94	348.23	0.00	41.82	306.41	8.8	9.2	3.5	12	170	--	--	--
MW6	10/05/94	348.23	0.00	42.64	305.59	100	5.6	11	12	600	--	--	--
MW6	02/21/95	348.23	0.01	35.55	312.69	--	--	--	--	--	--	--	--
MW6	05/03/95	348.23	0.00	35.47	312.76	--	--	--	--	--	--	--	--
MW6	05/04/95	348.23	--	--	--	6.8	1.8	7.4	7.1	350	--	--	--
MW6	08/04/95	348.23	0.00	37.72	310.51	3.8	1.7	ND	1.1	150	--	6.5	--
MW6	11/10/95	348.23	0.00	40.31	307.92	6.6	0.96	1.6	1.7	130	--	--	--
MW6	02/12/96	348.23	0.00	36.92	311.31	2.8	1.6	0.57	1.3	65	--	5.2	--
MW6	05/17/96	348.23	0.00	36.56	311.67	2.8	ND	ND	ND	91	--	ND	--
MW6	08/12/96	348.23	0.00	39.12	309.11	4.6	2.6	ND	1.7	75	--	ND	--
MW6	11/08/96	348.23	0.00	40.69	307.54	2.5	0.60	0.50	0.68	60	--	ND	--
MW6	02/12/97	348.23	0.00	34.99	313.24	--	--	--	--	--	--	--	--
MW6 <sup>a</sup>	03/17/97	348.23	0.00	37.76	310.47	ND	ND	ND	ND	ND	--	ND	--
MW6 <sup>a</sup>	05/13/97	348.23	0.00	38.45	309.78	ND	ND	ND	ND	ND	--	ND	--
MW6 <sup>a</sup>	08/12/97	348.23	0.00	41.33	306.90	1.3	ND	ND	ND	68	--	ND	--
MW6 <sup>a</sup>	10/31/97	348.23	0.00	41.68	306.55	ND	ND	ND	ND	ND	--	ND	--
MW6 <sup>a</sup>	01/21/98	348.23	0.00	41.62	306.61	2.1	ND	0.4	ND	180	--	ND	--
MW6 <sup>a</sup>	04/24/98	348.23	0.00	37.42	310.81	1.0	ND	ND	ND	100	--	ND	--
MW6 <sup>a</sup>	07/20/98	348.23	0.00	40.01	308.22	1.5	6.0	1.2	1.2	280	--	ND	--
MW6 <sup>a</sup>	10/21/98	348.23	0.00	42.93	305.30	9.1	7.7	ND	1.1	590	--	ND	--
MW6 <sup>a</sup>	02/22/99	348.23	0.00	41.83	306.40	ND	4.4	ND	ND	170	--	ND	--
MW6 <sup>a</sup>	05/27/99	348.23	0.00	42.13	306.10	ND	3.7	ND	0.9	160	--	ND	--
MW6 <sup>a</sup>	09/16/99	348.23	0.00	44.27	303.96	ND	ND	ND	ND	70	--	ND	--
MW6 <sup>a</sup>	11/15/99	348.23	0.00	44.65	303.58	ND	ND	ND	ND	ND	--	ND	--
MW6 <sup>a</sup>	03/02/00	348.23	0.00	41.50	306.73	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
MW6 <sup>a</sup>	06/06/00	348.23	0.00	44.48	303.75	<1.0	1.8	<0.20	<0.60	58	--	<0.30	--
MW6 <sup>a</sup>	08/29/00	348.23	0.00	45.43	302.80	<0.30	4.1	<0.30	0.64	150	--	<10	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW6 <sup>a</sup>	11/07/00	348.23	0.00	44.05	304.18	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
MW6 <sup>a</sup>	01/30/01	348.23	0.00	45.12	303.11	<0.20	<0.20	<0.20	<0.60	30	--	<0.30	--
MW6 <sup>a</sup>	04/19/01	348.23	0.00	44.48	303.75	<0.20	0.32	0.66	1.2	51	--	<5.0	--
MW6 <sup>a</sup>	07/27/01	348.23	0.00	44.59	303.64	<1.0	<1.0	0.48	0.80	95	--	<1.0	--
MW6 <sup>a</sup>	10/19/01	348.23	0.00	45.19	303.04	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
MW6 <sup>a</sup>	01/15/02	350.90	0.00	43.74	307.16	17.9	4.40	18.5	61.7	287	--	2.00	<0.5
MW6 <sup>a</sup>	04/09/02	350.90	0.00	47.66	303.24	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW6 <sup>a</sup>	07/23/02	350.90	0.00	49.09	301.81	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW6 <sup>a</sup>	10/16/02	350.90	0.00	44.18	306.72	26.7	2.8	46.2	73.4	831	--	<0.5	--
MW6 <sup>a</sup>	01/09/03	350.90	0.00	42.09	308.81	2.3	<0.50	<0.50	<0.50	<50.0	--	--	<0.50
MW6 <sup>a</sup>	04/14/03	350.90	0.00	44.25	306.65	<0.50	<0.50	<0.50	<0.50	73.9	--	--	<0.50
MW6 <sup>a</sup>	07/09/03	350.90	0.00	43.94	306.96	0.70	1.3	0.5	1.3	138	--	2.0	<0.5
MW6 <sup>a</sup>	10/01/03	350.90	0.00	44.65	306.25	0.80	<0.5	<0.5	0.6	96.5	--	2.0	<0.5
MW6 <sup>a</sup>	01/19/04	350.90	0.00	44.81	306.09	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW6 <sup>a</sup>	04/01/04	350.90	0.00	44.40	306.50	<1.0	1.9	<1.0	4.7	<100	--	--	<0.5
MW6 <sup>a</sup>	07/07/04	350.90	0.00	44.65	306.25	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW6 <sup>a</sup>	10/12/04	350.90	0.00	45.33	305.57	<0.5	2.4	<0.5	3.4	<50	--	--	<0.5
MW6 <sup>a</sup>	01/05/05	350.90	0.00	45.00	305.90	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW6 <sup>a</sup>	04/14/05	350.90	0.00	40.85	310.05	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW6 <sup>a</sup>	07/14/05	350.90	0.00	43.58	307.32	<50	--	<0.5	<0.5	<0.5	<0.5	--	<0.5
MW6 <sup>a</sup>	10/17/05	350.90	0.00	44.45	306.45	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW6 <sup>a</sup>	01/10/06	350.90	0.00	42.57	308.33	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW6 <sup>a</sup>	04/05/06	350.90	0.00	40.64	310.26	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.500
MW6 <sup>a</sup>	07/05/06	350.90	0.00	38.70	312.20	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW6 <sup>a</sup>	10/04/06	350.90	0.00	41.65	309.25	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW6 <sup>a</sup>	01/02/07	350.90	0.00	41.47	309.43	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW6 <sup>a</sup>	04/03/07	350.90	0.00	39.15	311.75	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW6 <sup>a</sup>	08/27/07	350.90	0.00	42.53	308.37	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW6 <sup>a</sup>	11/21/07	350.90	0.00	41.27	309.63	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW6 <sup>a</sup>	03/18/08	350.90	0.00	38.21	312.69	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW6 <sup>a</sup>	06/06/08	350.90	0.00	39.76	311.14	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW6 <sup>a</sup>	09/09/08	350.90	0.00	43.46	307.44	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW6 <sup>a</sup>	12/16/08	350.90	0.00	44.35	306.55	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW6 <sup>a</sup>	02/10/09	350.90	0.00	43.69	307.21	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW6 <sup>a</sup>	05/18/09	350.90	0.00	42.23	308.67	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
<b>MW6<sup>a</sup></b>	<b>07/21/09</b>	<b>350.90</b>	<b>0.00</b>	<b>44.15</b>	<b>306.75</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	--	--	<b>&lt;0.50</b>
MW7	10/18/90	347.90	0.00	9.26	338.64	0	0.5	ND	0.8	ND	ND	--	--
MW7	08/06/91	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	01/08/92	347.90	0.00	23.79	324.11	7.8	1.7	ND	0.55	220	--	--	--
MW7	04/30/92	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	07/31/92	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	10/27/92	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	01/22/93	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	04/05/93	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	07/06/93	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	11/30/93	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	01/27/94	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	04/25/94	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	07/08/94	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	02/21/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	05/03/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	08/04/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	11/10/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	02/12/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	05/17/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	08/12/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	11/08/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	02/12/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	03/17/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	05/13/97	347.90	--	--	--	--	--	--	--	--	--	--	--
MW7	08/12/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	10/31/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	01/21/98	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	04/24/98	347.90	0.00	24.44	323.46	--	--	--	--	--	--	--	--
MW7	07/20/98	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	10/21/98	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	02/22/99	347.90	0.00	23.69	324.21	--	--	--	--	--	--	--	--
MW7	05/27/99	347.90	0.00	23.67	324.23	--	--	--	--	--	--	--	--
MW7	09/16/99	347.90	0.00	23.19	324.71	--	--	--	--	--	--	--	--



TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)							
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)
MW7	11/15/99	347.90	--	Dry	--	--	--	--	--	--	--	--	--
MW7	03/02/00	347.90	0.00	18.10	329.80	--	--	--	--	--	--	--	--
MW7	06/06/00	347.90	0.00	24.19	323.71	--	--	--	--	--	--	--	--
MW7	08/29/00	347.90	0.00	19.40	328.50	--	--	--	--	--	--	--	--
MW7	11/07/00	347.90	0.00	20.20	327.70	--	--	--	--	--	--	--	--
MW7	01/30/01	347.90	0.00	18.77	329.13	--	--	--	--	--	--	--	--
MW7	04/19/01	347.90	0.00	17.26	330.64	--	--	--	--	--	--	--	--
MW7	07/27/01	347.90	0.00	18.98	328.92	--	--	--	--	--	--	--	--
MW7	10/19/01	347.90	0.00	17.27	330.63	--	--	--	--	--	--	--	--
MW7	01/15/02	350.47	0.00	17.21	333.26	--	--	--	--	--	--	--	--
MW7	04/09/02	350.47	0.00	15.46	335.01	--	--	--	--	--	--	--	--
MW7	07/23/02	350.47	0.00	18.40	332.07	--	--	--	--	--	--	--	--
MW7	10/16/02	350.47	0.00	19.23	331.24	--	--	--	--	--	--	--	--
MW7	01/09/03	350.47	0.00	18.68	331.79	--	--	--	--	--	--	--	--
MW7	04/14/03	350.47	0.00	12.93	337.54	--	--	--	--	--	--	--	--
MW7	07/09/03	350.47	0.00	15.68	334.79	--	--	--	--	--	--	--	--
MW7	10/01/03	350.47	0.00	13.04	337.43	--	--	--	--	--	--	--	--
MW7	01/19/04	350.47	0.00	11.65	338.82	--	--	--	--	--	--	--	--
MW7	04/01/04	350.47	0.00	13.33	337.14	--	--	--	--	--	--	--	--
MW7	07/07/04	350.47	0.00	10.97	339.50	--	--	--	--	--	--	--	--
MW7	10/12/04	350.47	0.00	8.72	341.75	--	--	--	--	--	--	--	--
MW7	01/05/05	350.47	0.00	8.19	342.28	--	--	--	--	--	--	--	--
MW7	04/14/05	350.47	0.00	7.50	342.97	--	--	--	--	--	--	--	--
MW7	07/14/05	350.47	0.00	7.59	342.88	--	--	--	--	--	--	--	--
MW7	10/17/05	350.47	0.00	7.94	342.53	--	--	--	--	--	--	--	--
MW7	01/10/06	350.47	0.00	8.01	342.46	--	--	--	--	--	--	--	--
MW7	04/05/06	350.47	0.00	7.48	342.99	--	--	--	--	--	--	--	--
MW7	07/05/06	350.47	0.00	8.08	342.39	--	--	--	--	--	--	--	--
MW7	10/04/06	350.47	0.00	8.89	341.58	--	--	--	--	--	--	--	--
MW7	01/02/07	350.47	0.00	8.79	341.68	--	--	--	--	--	--	--	--
MW7	04/03/07	350.47	0.00	8.70	341.77	--	--	--	--	--	--	--	--
MW7	08/27/07	350.47	0.00	9.31	341.16	--	--	--	--	--	--	--	--
MW7	11/21/07	350.47	0.00	9.57	340.90	--	--	--	--	--	--	--	--
MW7	03/18/08	350.47	0.00	8.40	342.07	--	--	--	--	--	--	--	--
MW7	06/06/08	350.47	0.00	8.71	341.76	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW7	09/09/08	350.47	0.00	7.31	343.16	--	--	--	--	--	--	--	--
MW7	12/16/08	350.47	0.00	6.85	343.62	--	--	--	--	--	--	--	--
MW7	02/10/09	350.47	0.00	6.73	343.74	--	--	--	--	--	--	--	--
MW7	05/18/09	350.47	0.00	7.13	343.34	--	--	--	--	--	--	--	--
<b>MW7</b>	<b>07/21/09</b>	<b>350.47</b>	<b>0.00</b>	<b>7.81</b>	<b>342.66</b>	--	--	--	--	--	--	--	--
MW8	10/18/90	348.90	0.00	11.30	337.60	3	5	7	62	900	ND	--	--
MW8	08/06/91	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	01/08/92	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	04/30/92	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	07/31/92	348.90	0.00	12.04	336.86	ND	ND	ND	1.3	270 <sup>e</sup>	--	--	--
MW8	10/27/92	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	01/22/93	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	04/05/93	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	07/06/93	348.90	0.00	7.48	341.42	ND	ND	ND	ND	ND	--	--	--
MW8	11/30/93	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	01/27/94	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	04/25/94	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	07/08/94	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	10/05/94	348.90	--	--	--	--	--	--	--	--	--	--	--
MW8	02/21/95	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	05/03/95	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	08/04/95	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	11/10/95	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	02/12/96	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	05/17/96	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	08/12/96	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	11/08/96	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	02/12/97	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	03/17/97	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	05/13/97	348.90	--	--	--	--	--	--	--	--	--	--	--
MW8	08/12/97	348.90	--	Dry	--	--	--	--	--	--	--	--	--
MW8	10/31/97	348.90	0.00	18.88	330.02	--	--	--	--	--	--	--	--
MW8	01/21/98	348.90	0.00	19.50	329.40	--	--	--	--	--	--	--	--
MW8	04/24/98	348.90	0.00	18.53	330.37	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)							
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)
MW8	07/20/98	348.90	0.00	19.22	329.68	--	--	--	--	--	--	--	--
MW8	10/21/98	348.90	0.00	20.19	328.71	--	--	--	--	--	--	--	--
MW8	02/22/99	348.90	0.00	20.64	328.26	--	--	--	--	--	--	--	--
MW8	05/27/99	348.90	0.00	20.53	328.37	--	--	--	--	--	--	--	--
MW8	09/16/99	348.90	0.00	18.10	330.80	--	--	--	--	--	--	--	--
MW8	11/15/99	348.90	0.00	19.52	329.38	--	--	--	--	--	--	--	--
MW8	03/02/00	348.90	0.00	17.42	331.48	--	--	--	--	--	--	--	--
MW8	06/06/00	348.90	0.00	18.02	330.88	--	--	--	--	--	--	--	--
MW8	08/29/00	348.90	0.00	16.90	332.00	--	--	--	--	--	--	--	--
MW8	11/07/00	348.90	0.00	17.45	331.45	--	--	--	--	--	--	--	--
MW8	01/30/01	348.90	0.00	16.61	332.29	--	--	--	--	--	--	--	--
MW8	04/19/01	348.90	0.00	16.81	332.09	--	--	--	--	--	--	--	--
MW8	07/27/01	348.90	0.00	16.61	332.29	--	--	--	--	--	--	--	--
MW8	10/19/01	348.90	0.00	16.69	332.21	--	--	--	--	--	--	--	--
MW8	01/15/02	351.45	0.00	16.75	334.70	--	--	--	--	--	--	--	--
MW8	04/09/02	351.45	0.00	15.63	335.82	--	--	--	--	--	--	--	--
MW8	07/23/02	351.45	0.00	17.86	333.59	--	--	--	--	--	--	--	--
MW8	10/16/02	351.45	0.00	18.58	332.87	--	--	--	--	--	--	--	--
MW8	01/09/03	351.45	0.00	17.70	333.75	--	--	--	--	--	--	--	--
MW8	04/14/03	351.45	0.00	14.87	336.58	--	--	--	--	--	--	--	--
MW8	07/09/03	351.45		Well not located.		--	--	--	--	--	--	--	--
MW8	10/01/03	351.45		Well not located.		--	--	--	--	--	--	--	--
MW8	01/19/04	351.45	0.00	13.90	337.55	--	--	--	--	--	--	--	--
MW8	04/01/04	351.45	0.00	13.62	337.83	--	--	--	--	--	--	--	--
MW8	07/07/04	351.45	0.00	12.40	339.05	--	--	--	--	--	--	--	--
MW8	10/12/04	351.45	0.00	10.99	340.46	--	--	--	--	--	--	--	--
MW8	01/05/05	351.45	0.00	10.81	340.64	--	--	--	--	--	--	--	--
MW8	04/14/05	351.45	0.00	10.20	341.25	--	--	--	--	--	--	--	--
MW8	07/14/05	351.45	0.00	10.06	341.39	--	--	--	--	--	--	--	--
MW8	10/17/05	351.45	0.00	10.42	341.03	--	--	--	--	--	--	--	--
MW8	01/10/06	351.45	0.00	11.26	340.19	--	--	--	--	--	--	--	--
MW8	04/05/06	351.45	0.00	9.82	341.63	--	--	--	--	--	--	--	--
MW8	07/05/06	351.45	0.00	10.43	341.02	--	--	--	--	--	--	--	--
MW8	10/04/06	351.45	0.00	11.24	340.21	--	--	--	--	--	--	--	--
MW8	01/02/07	351.45	0.00	11.13	340.32	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW8	04/03/07	351.45	0.00	10.15	341.30	--	--	--	--	--	--	--	--
MW8	08/27/07	351.45	0.00	10.04	341.41	--	--	--	--	--	--	--	--
MW8	11/21/07	351.45	0.00	11.95	339.50	--	--	--	--	--	--	--	--
MW8	03/18/08	351.45	0.00	11.09	340.36	--	--	--	--	--	--	--	--
MW8	06/06/08	351.45	0.00	11.02	340.43	--	--	--	--	--	--	--	--
MW8	09/09/08	351.45	0.00	10.61	340.84	--	--	--	--	--	--	--	--
MW8	12/16/08	351.45	0.00	10.41	341.04	--	--	--	--	--	--	--	--
MW8	02/10/09	351.45	0.00	10.56	340.89	--	--	--	--	--	--	--	--
MW8	05/18/09	351.45	0.00	9.85	341.60	--	--	--	--	--	--	--	--
<b>MW8</b>	<b>07/21/09</b>	<b>351.45</b>	<b>0.00</b>	<b>9.91</b>	<b>341.54</b>	--	--	--	--	--	--	--	--
MW9	02/04/92	348.53	0.00	43.54	304.99	3,000	740	1,200	2,500	16,000	--	--	--
MW9	04/30/92	348.53	0.00	42.83	305.70	1,000	120	410	350	5,600	--	--	--
MW9	07/31/92	348.53	0.00	47.36	301.17	1,800	1,900	620	940	93	--	--	--
MW9	10/27/92	348.53	0.00	48.32	300.21	2,400	1,600	680	1,100	13,000	--	--	--
MW9	01/22/93	348.53	0.00	39.11	309.42	1,200	200	510	350	5,600	--	--	--
MW9	04/05/93	348.53	0.00	37.10	311.43	1,300	510	620	670	7,900	--	--	--
MW9	07/06/93	348.53	0.00	39.21	309.32	510	46	170	150	3,200	--	--	--
MW9	11/30/93	348.53	0.00	40.58	307.95	610	28	220	65	2,800	--	--	--
MW9	01/27/94	348.53	0.00	44.32	304.21	1,400	130	230	700	11,000	--	--	--
MW9	04/25/94	348.53	0.00	43.05	305.48	--	--	--	--	--	--	--	--
MW9	04/26/94	348.53	--	--	--	460	56	160	220	3,900	--	--	--
MW9	07/08/94	348.53	0.00	45.72	302.81	340	82	96	220	2,600	--	--	--
Well destroyed.													
MW10	11/30/93	347.95	0.00	37.97	309.98	ND	ND	ND	ND	ND	--	--	--
MW10	01/27/94	347.95	0.00	42.16	305.79	ND	ND	ND	1.2	ND	--	--	--
MW10	04/25/94	347.95	0.00	40.39	307.56	--	--	--	--	--	--	--	--
MW10	04/26/94	347.95	--	--	--	17	0.84	ND	ND	810	--	--	--
MW10	07/08/94	347.95	0.00	41.45	306.50	18	12	3.7	14	110	--	--	--
MW10	10/05/94	347.95	0.00	42.28	305.67	8.0	5.0	0.85	4.5	87	--	--	--
MW10	02/21/95	347.95	0.00	35.14	312.81	3.6	12	1.8	9.5	70	--	--	--
MW10	05/03/95	347.95	0.00	35.07	312.88	ND	ND	ND	ND	ND	--	--	--
MW10	08/04/95	347.95	0.00	37.42	310.53	ND	ND	ND	ND	ND	--	ND	--
MW10	11/10/95	347.95	0.00	39.95	308.00	ND	ND	ND	ND	ND	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW10	02/12/96	347.95	0.00	36.57	311.38	ND	1.9	ND	1.2	ND	--	1.2	--
MW10	05/17/96	347.95	0.00	36.18	311.77	ND	ND	ND	ND	ND	--	ND	--
MW10	08/12/96	347.95	0.00	38.76	309.19	ND	ND	ND	ND	ND	--	ND	--
MW10	11/08/96	347.95	0.00	40.35	307.60	ND	ND	ND	ND	ND	--	ND	--
MW10	02/12/97	347.95	0.00	34.62	313.33	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	03/17/97	347.95	0.00	37.40	310.55	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	05/13/97	347.95	0.00	38.08	309.87	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	08/12/97	347.95	0.00	40.97	306.98	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	10/31/97	347.95	0.00	41.29	306.66	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	01/21/98	347.95	0.00	41.88	306.07	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	04/24/98	347.95	0.00	37.06	310.89	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	07/20/98	347.95	0.00	39.62	308.33	ND	ND	ND	ND	ND	--	ND	--
MW10 <sup>a</sup>	10/21/98	347.95	0.00	42.39	305.56	ND	ND	ND	ND	ND	--	ND	--
MW10	02/22/99	347.95	0.00	41.51	306.44	--	--	--	--	--	--	--	--
MW10	05/27/99	347.95	0.00	41.78	306.17	--	--	--	--	--	--	--	--
MW10	09/16/99	347.95	0.00	43.82	304.13	--	--	--	--	--	--	--	--
MW10	11/15/99	347.95	0.00	42.35	305.60	--	--	--	--	--	--	--	--
MW10	03/02/00	347.95	0.00	41.20	306.75	--	--	--	--	--	--	--	--
MW10	06/06/00	347.95	0.00	43.15	304.80	--	--	--	--	--	--	--	--
MW10	08/29/00	347.95	0.00	45.17	302.78	--	--	--	--	--	--	--	--
MW10	11/07/00	347.95	0.00	43.71	304.24	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	01/30/01	347.95	0.00	44.77	303.18	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
MW10	04/19/01	347.95	0.00	44.16	303.79	--	--	--	--	--	--	--	--
MW10	07/27/01	347.95	0.00	44.26	303.69	--	--	--	--	--	--	--	--
MW10	10/19/01	347.95	0.00	44.84	303.11	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	01/15/02	350.60	0.00	43.40	307.20	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW10	04/09/02	350.60	0.00	45.56	305.04	--	--	--	--	--	--	--	--
MW10	07/23/02	350.60	0.00	46.21	304.39	--	--	--	--	--	--	--	--
MW10	10/16/02	350.60	0.00	43.80	306.80	--	--	--	--	--	--	--	--
MW10	01/09/03	350.60	0.00	41.71	308.89	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	0.60
MW10	04/14/03	350.60	0.00	43.91	306.69	--	--	--	--	--	--	--	--
MW10	07/09/03	350.60	0.00	43.61	306.99	--	--	--	--	--	--	--	--
MW10	10/01/03	350.60	0.00	44.34	306.26	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	01/19/04	350.60	0.00	44.50	306.10	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW10	04/01/04	350.60	0.00	44.07	306.53	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW10	07/07/04	350.60	0.00	44.35	306.25	--	--	--	--	--	--	--	--
MW10	10/12/04	350.60	0.00	45.04	305.56	--	--	--	--	--	--	--	--
MW10	01/05/05	350.60	0.00	44.66	305.94	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW10	04/14/05	350.60	0.00	40.51	310.09	--	--	--	--	--	--	--	--
MW10	07/14/05	350.60	0.00	43.24	307.36	--	--	--	--	--	--	--	--
MW10	10/17/05	350.60	0.00	44.13	306.47	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	01/10/06	350.60	0.00	42.23	308.37	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW10	04/05/06	350.60	0.00	40.30	310.30	--	--	--	--	--	--	--	--
MW10	07/05/06	350.60	0.00	38.79	311.81	--	--	--	--	--	--	--	--
MW10	10/04/06	350.60	0.00	41.30	309.30	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	01/02/07	350.60	0.00	41.15	309.45	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW10	04/03/07	350.60	0.00	38.84	311.76	--	--	--	--	--	--	--	--
MW10	08/27/07	350.60	0.00	42.10	308.50	--	--	--	--	--	--	--	--
MW10	11/21/07	350.60	0.00	40.96	309.64	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	03/18/08	350.60	0.00	37.90	312.70	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW10	06/06/08	350.60	0.00	39.40	311.20	--	--	--	--	--	--	--	--
MW10	09/09/08	350.60	0.00	43.10	307.50	--	--	--	--	--	--	--	--
MW10	12/16/08	350.60	0.00	44.02	306.58	--	--	--	--	--	--	--	--
MW10 <sup>a</sup>	02/10/09	350.60	0.00	43.35	307.25	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW10	05/18/09	350.60	0.00	41.91	308.69	--	--	--	--	--	--	--	--
<b>MW10</b>	<b>07/21/09</b>	<b>350.60</b>	<b>0.00</b>	<b>43.85</b>	<b>306.75</b>	--	--	--	--	--	--	--	--
MW11	11/30/93	347.56	0.00	38.41	309.15	ND	ND	ND	1.6	ND	--	--	--
MW11	01/27/94	347.56	0.00	38.02	309.54	ND	ND	ND	ND	ND	--	--	--
MW11	04/25/94	347.56	0.00	38.77	308.79	--	--	--	--	--	--	--	--
MW11	04/26/94	347.56	--	--	--	ND	ND	ND	1.7	ND	--	--	--
MW11	07/08/94	347.56	0.00	41.70	305.86	23	18	4.0	15	120	--	--	--
MW11	10/05/94	347.56	0.00	44.49	303.07	12	19	4.6	24	130	--	--	--
MW11	02/21/95	347.56	0.00	41.74	305.82	27	64	7.3	36	300	--	--	--
MW11	05/03/95	347.56	0.00	34.64	312.92	ND	ND	ND	ND	ND	--	--	--
MW11	08/04/95	347.56	0.00	35.28	312.28	ND	ND	ND	ND	ND	--	ND	--
MW11	11/10/95	347.56	0.00	36.85	310.71	ND	0.88	ND	0.88	ND	--	--	--
MW11	02/12/96	347.56	0.00	36.18	311.38	ND	1.7	ND	1.2	ND	--	1.3	--
MW11	05/17/96	347.56	0.00	34.39	313.17	ND	ND	ND	ND	ND	--	ND	--
MW11	08/12/96	347.56	0.00	35.64	311.92	ND	ND	ND	ND	ND	--	ND	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW11	11/08/96	347.56	0.00	37.34	310.22	ND	ND	ND	0.81	ND	--	ND	--
MW11	02/12/97	347.56	0.00	35.37	312.19	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	03/17/97	347.56	0.00	35.11	312.45	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	05/13/97	347.56	0.00	36.19	311.37	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	08/12/97	347.56	0.00	37.73	309.83	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	10/31/97	347.56	0.00	40.48	307.08	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	01/21/98	347.56	0.00	38.28	309.28	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	04/24/98	347.56	0.00	34.50	313.06	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	07/20/98	347.56	0.00	40.21	307.35	ND	ND	ND	ND	ND	--	ND	--
MW11 <sup>a</sup>	10/21/98	347.56	0.00	43.07	304.49	ND	ND	ND	ND	ND	--	ND	--
MW11	02/22/99	347.56	0.00	42.32	305.24	--	--	--	--	--	--	--	--
MW11	05/27/99	347.56	0.00	42.27	305.29	--	--	--	--	--	--	--	--
MW11	09/16/99	347.56	0.00	43.91	303.65	--	--	--	--	--	--	--	--
MW11 <sup>c</sup>	11/15/99	347.56	--	--	--	--	--	--	--	--	--	--	--
MW11	03/02/00	347.56	--	Dry	--	--	--	--	--	--	--	--	--
MW11	06/06/00	347.56	0.00	44.06	303.50	--	--	--	--	--	--	--	--
MW11 <sup>c</sup>	08/29/00	347.56	--	--	--	--	--	--	--	--	--	--	--
MW11 <sup>c</sup>	11/07/00	347.56	--	--	--	--	--	--	--	--	--	--	--
MW11 <sup>c</sup>	01/30/01	347.56	--	--	--	--	--	--	--	--	--	--	--
MW11	02/16/01	347.56	--	--	--	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
MW11	04/19/01	347.56	0.00	39.14	308.42	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	07/27/01	347.56	0.00	43.82	303.74	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
MW11	10/19/01	347.56	0.00	43.18	304.38	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	01/15/02	350.16	0.00	37.10	313.06	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW11	04/09/02	350.16	0.00	43.80	306.36	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	07/23/02	350.16	0.00	43.88	306.28	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW11	10/16/02	350.16	0.00	43.87	306.29	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	01/09/03	350.16	0.00	36.13	314.03	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.50
MW11	04/14/03	350.16	0.00	38.41	311.75	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	07/09/03	350.16	0.00	42.84	307.32	<0.5	<0.5	<0.5	<0.5	<50	--	<0.5	<0.5
MW11	10/01/03	350.16	0.00	43.85	306.31	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	01/19/04	350.16	0.00	38.42	311.74	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW11	04/01/04	350.16	0.00	42.32	307.84	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	07/07/04	350.16	0.00	43.70	306.46	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW11	10/12/04	350.16	0.00	43.79	306.37	--	--	--	--	--	--	--	--



TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW11	01/05/05	350.16	0.00	41.98	308.18	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW11	04/14/05	350.16	0.00	35.13	315.03	--	--	--	--	--	--	--	--
MW11	07/14/05	350.16	0.00	42.45	307.71	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW11	10/17/05	350.16	0.00	35.03	315.13	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	01/10/06	350.16	0.00	34.58	315.58	<0.5	0.67	<0.5	0.55	<50	--	--	<0.5
MW11	04/05/06	350.16	0.00	39.98	310.18	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	07/05/06	350.16	0.00	34.86	315.30	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW11	10/04/06	350.16	0.00	34.88	315.28	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	01/02/07	350.16	0.00	34.61	315.55	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW11	04/03/07	350.16	0.00	35.20	314.96	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	08/27/07	350.16	0.00	34.70	315.46	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW11 <sup>a</sup>	11/21/07	350.16	0.00	34.34	315.82	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	03/18/08	350.16	0.00	33.55	316.61	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW11	06/06/08	350.16	0.00	34.89	315.27	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	09/09/08	350.16	0.00	42.45	307.71	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW11	12/16/08	350.16	0.00	43.02	307.14	--	--	--	--	--	--	--	--
MW11 <sup>a</sup>	02/10/09	350.16	0.00	40.80	309.36	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW11	05/18/09	350.16	0.00	36.61	313.55	--	--	--	--	--	--	--	--
<b>MW11</b>	<b>07/21/09</b>	<b>350.16</b>	<b>0.00</b>	<b>35.20</b>	<b>314.96</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	--	--	<b>&lt;0.50</b>
MW12	11/30/93	347.15	0.00	37.97	309.18	1.8	4.3	2.5	11	55	--	--	--
MW12	01/27/94	347.15	0.00	44.02	303.13	ND	ND	ND	ND	ND	--	--	--
MW12	04/25/94	347.15	0.00	42.27	304.88	--	--	--	--	--	--	--	--
MW12	04/26/94	347.15	--	--	--	ND	ND	ND	1.4	ND	--	--	--
MW12	07/08/94	347.15	0.00	43.26	303.89	8.4	7.4	1.9	7.1	53	--	--	--
MW12	10/05/94	347.15	0.00	44.32	302.83	27	56	13	67	350	--	--	--
MW12	02/21/95	347.15	0.00	37.83	309.32	4.0	4.0	0.77	3.6	ND	--	--	--
MW12	05/03/95	347.15	0.00	37.24	309.91	ND	ND	ND	ND	ND	--	--	--
MW12	08/04/95	347.15	0.00	39.07	308.08	ND	ND	ND	ND	ND	--	ND	--
MW12	11/10/95	347.15	0.00	41.24	305.91	ND	ND	ND	ND	ND	--	--	--
MW12	02/12/96	347.15	0.00	38.19	308.96	ND	2.1	ND	1.3	ND	--	2.5	--
MW12 <sup>c</sup>	05/17/96	347.15	--	--	--	--	--	--	--	--	--	--	--
MW12	08/12/96	347.15	0.00	40.32	306.83	ND	ND	ND	ND	ND	--	ND	--
MW12	11/08/96	347.15	0.00	41.32	305.83	ND	ND	ND	ND	ND	--	ND	--
MW12	02/12/97	347.15	0.00	35.98	311.17	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW12 <sup>a</sup>	03/17/97	347.15	0.00	38.67	308.48	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	05/13/97	347.15	0.00	39.68	307.47	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	08/12/97	347.15	0.00	42.81	304.34	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	10/31/97	347.15	0.00	43.28	303.87	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	01/21/98	347.15	0.00	43.10	304.05	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	04/24/98	347.15	0.00	38.23	308.92	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	07/20/98	347.15	0.00	41.09	306.06	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>a</sup>	10/21/98	347.15	0.00	44.23	302.92	ND	ND	ND	ND	ND	--	ND	--
MW12 <sup>c</sup>	02/22/99	347.15	0.00	--	--	--	--	--	--	--	--	--	--
MW12	05/27/99	347.15	0.00	43.18	303.97	--	--	--	--	--	--	--	--
MW12	09/16/99	347.15	0.00	46.29	300.86	--	--	--	--	--	--	--	--
MW12 <sup>c</sup>	11/15/99	347.15	0.00	--	--	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	03/02/00	347.15	0.00	43.93	303.22	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
MW12	06/06/00	347.15	0.00	44.93	302.22	--	--	--	--	--	--	--	--
MW12	08/29/00	347.15	0.00	48.06	299.09	--	--	--	--	--	--	--	--
MW12	11/07/00	347.15	0.00	47.77	299.38	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	01/30/01	347.15	0.00	48.85	298.30	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
MW12	04/19/01	347.15	0.00	47.09	300.06	--	--	--	--	--	--	--	--
MW12	07/27/01	347.15	0.00	47.52	299.63	--	--	--	--	--	--	--	--
MW12	10/19/01	347.15	0.00	48.22	298.93	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	01/15/02	349.74	0.00	46.69	303.05	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
MW12	04/09/02	349.74	0.00	48.78	300.96	--	--	--	--	--	--	--	--
MW12	07/23/02	349.74	0.00	49.42	300.32	--	--	--	--	--	--	--	--
MW12	10/16/02	349.74	0.00	47.24	302.50	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	01/09/03	349.74	0.00	44.99	304.75	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.50
MW12	04/14/03	349.74	0.00	46.37	303.37	--	--	--	--	--	--	--	--
MW12	07/09/03	349.74	0.00	45.91	303.83	--	--	--	--	--	--	--	--
MW12	10/01/03	349.74	0.00	46.91	302.83	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	01/19/04	349.74	0.00	46.77	302.97	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW12	04/01/04	349.74	0.00	46.20	303.54	--	--	--	--	--	--	--	--
MW12	07/07/04	349.74	0.00	46.58	303.16	--	--	--	--	--	--	--	--
MW12	10/12/04	349.74	0.00	47.73	302.01	--	--	--	--	--	--	--	--
MW12	01/05/05	349.74	0.00	47.39	302.35	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
MW12	04/14/05	349.74	0.00	42.61	307.13	--	--	--	--	--	--	--	--
MW12	07/14/05	349.74	0.00	44.98	304.76	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
MW12	10/17/05	349.74	0.00	45.55	304.19	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	01/10/06	349.74	0.00	43.58	306.16	<0.5	0.50	<0.5	<0.5	<50	--	--	<0.5
MW12	04/05/06	349.74	0.00	40.81	308.93	--	--	--	--	--	--	--	--
MW12	07/05/06	349.74	0.00	35.68	314.06	--	--	--	--	--	--	--	--
MW12	10/04/06	349.74	0.00	41.89	307.85	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	01/02/07	349.74	0.00	40.89	308.85	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW12	04/03/07	349.74	0.00	38.20	311.54	--	--	--	--	--	--	--	--
MW12	08/27/07	349.74	0.00	42.54	307.20	--	--	--	--	--	--	--	--
MW12	11/21/07	349.74	0.00	40.53	309.21	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	03/18/08	349.74	0.00	37.50	312.24	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
MW12	06/06/08	349.74	0.00	39.29	310.45	--	--	--	--	--	--	--	--
MW12	09/09/08	349.74	0.00	43.85	305.89	--	--	--	--	--	--	--	--
MW12	12/16/08	349.74	0.00	44.44	305.30	--	--	--	--	--	--	--	--
MW12 <sup>a</sup>	02/10/09	349.74	0.00	43.60	306.14	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
MW12	05/18/09	349.74	0.00	42.20	307.54	--	--	--	--	--	--	--	--
<b>MW12</b>	<b>07/21/09</b>	<b>349.74</b>	<b>0.00</b>	<b>45.08</b>	<b>304.66</b>	--	--	--	--	--	--	--	--
VMW1	11/30/93	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/27/94	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/25/94	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/08/94	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/05/94	348.05	--	--	--	--	--	--	--	--	--	--	--
VMW1	02/21/95	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	05/03/95	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	08/04/95	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	11/10/95	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	02/12/96	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	05/17/96	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	08/12/96	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	11/08/96	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	02/12/97	348.05	0.00	30.60	--	--	--	--	--	--	--	--	--
VMW1	03/17/97	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	05/13/97	348.05	--	--	--	--	--	--	--	--	--	--	--
VMW1	08/12/97	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/31/97	348.05	--	Dry	--	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
VMW1	01/21/98	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/24/98	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/20/98	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/21/98	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	02/22/99	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	05/27/99	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	09/16/99	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	11/15/99	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	03/02/00	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	06/06/00	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	08/29/00	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	11/07/00	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/30/01	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/19/01	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/27/01	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/19/01	348.05	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/15/02	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/09/02	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/23/02	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/16/02	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/09/03	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/14/03	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/09/03	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/01/03	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/19/04	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/01/04	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/07/04	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/12/04	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/05/05	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	04/14/05	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	07/14/05	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	10/17/05	350.58	--	Dry	--	--	--	--	--	--	--	--	--
VMW1	01/10/06	350.58	0.00	30.01	320.57	--	--	--	--	--	--	--	--
VMW1	04/05/06	350.58	0.00	27.66	322.92	--	--	--	--	--	--	--	--
VMW1	07/05/06	350.58	0.00	22.55	328.03	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
VMW1	10/04/06	350.58	0.00	22.20	328.38	--	--	--	--	--	--	--	--
VMW1	01/02/07	350.58	0.00	23.74	326.84	--	--	--	--	--	--	--	--
VMW1	04/03/07	350.58	0.00	24.19	326.39	--	--	--	--	--	--	--	--
VMW1	08/27/07	350.58	0.00	22.28	328.30	--	--	--	--	--	--	--	--
VMW1	11/21/07	350.58	0.00	22.50	328.08	--	--	--	--	--	--	--	--
VMW1	03/18/08	350.58	0.00	22.91	327.67	--	--	--	--	--	--	--	--
VMW1	06/06/08	350.58	0.00	20.34	330.24	--	--	--	--	--	--	--	--
VMW1	09/09/08	350.58	0.00	25.33	325.25	--	--	--	--	--	--	--	--
VMW1	12/16/08	350.58	0.00	24.69	325.89	--	--	--	--	--	--	--	--
VMW1	02/10/09	350.58	0.00	24.70	325.88	--	--	--	--	--	--	--	--
VMW1	05/18/09	350.58	0.00	20.29	330.29	--	--	--	--	--	--	--	--
<b>VMW1</b>	<b>07/21/09</b>	<b>350.58</b>	<b>0.00</b>	<b>19.04</b>	<b>331.54</b>	--	--	--	--	--	--	--	--
VMW2	11/30/93	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	01/27/94	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	04/25/94	347.90	0.00	33.82	314.08	--	--	--	--	--	--	--	--
VMW2	07/08/94	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	02/21/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	05/03/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	08/04/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	11/10/95	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	02/12/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	05/17/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	08/12/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	11/08/96	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	02/12/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	03/17/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	05/13/97	347.90	--	--	--	--	--	--	--	--	--	--	--
VMW2	08/12/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	10/31/97	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	01/21/98	347.90	0.00	27.85	320.05	--	--	--	--	--	--	--	--
VMW2	04/24/98	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	07/20/98	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	10/21/98	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	02/22/99	347.90	--	Dry	--	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)							
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)
VMW2	05/27/99	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	09/16/99	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	11/15/99	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2 <sup>c</sup>	03/02/00	347.90	--	--	--	--	--	--	--	--	--	--	--
VMW2	06/06/00	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	08/29/00	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	11/07/00	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	01/30/01	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	04/19/01	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	07/27/01	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	10/19/01	347.90	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	01/15/02	350.42	--	Dry	--	--	--	--	--	--	--	--	--
VMW2	04/09/02	350.42	0.00	25.78	324.64	--	--	--	--	--	--	--	--
VMW2	07/23/02	350.42	0.00	27.21	323.21	--	--	--	--	--	--	--	--
VMW2	10/16/02	350.42	0.00	26.75	323.67	--	--	--	--	--	--	--	--
VMW2	01/09/03	350.42	0.00	26.26	324.16	--	--	--	--	--	--	--	--
VMW2	04/14/03	350.42	0.00	25.44	324.98	--	--	--	--	--	--	--	--
VMW2	07/09/03	350.42	0.00	25.54	324.88	--	--	--	--	--	--	--	--
VMW2	10/01/03	350.42	0.00	25.29	325.13	--	--	--	--	--	--	--	--
VMW2	01/19/04	350.42	0.00	23.42	327.00	--	--	--	--	--	--	--	--
VMW2	04/01/04	350.42	0.00	22.78	327.64	--	--	--	--	--	--	--	--
VMW2	07/07/04	350.42	0.00	21.92	328.50	--	--	--	--	--	--	--	--
VMW2	10/12/04	350.42	0.00	21.38	329.04	--	--	--	--	--	--	--	--
VMW2	01/05/05	350.42	0.00	20.68	329.74	--	--	--	--	--	--	--	--
VMW2	04/14/05	350.42	0.00	19.61	330.81	--	--	--	--	--	--	--	--
VMW2	07/14/05	350.42	0.00	18.52	331.90	--	--	--	--	--	--	--	--
VMW2	10/17/05	350.42	0.00	21.00	329.42	--	--	--	--	--	--	--	--
VMW2	01/10/06	350.42	0.00	20.47	329.95	--	--	--	--	--	--	--	--
VMW2	04/05/06	350.42	0.00	17.98	332.44	--	--	--	--	--	--	--	--
VMW2	07/05/06	350.42	0.00	16.96	333.46	--	--	--	--	--	--	--	--
VMW2	10/04/06	350.42	0.00	19.53	330.89	--	--	--	--	--	--	--	--
VMW2	01/02/07	350.42	0.00	19.47	330.95	--	--	--	--	--	--	--	--
VMW2	04/03/07	350.42	0.00	19.94	330.48	--	--	--	--	--	--	--	--
VMW2	08/27/07	350.42	0.00	17.39	333.03	--	--	--	--	--	--	--	--
VMW2	11/21/07	350.42	0.00	18.02	332.40	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
VMW2	03/18/08	350.42	0.00	17.41	333.01	--	--	--	--	--	--	--	--
VMW2	06/06/08	350.42	0.00	16.70	333.72	--	--	--	--	--	--	--	--
VMW2	09/09/08	350.42	0.00	16.61	333.81	--	--	--	--	--	--	--	--
VMW2	12/16/08	350.42	0.00	16.49	333.93	--	--	--	--	--	--	--	--
VMW2	02/10/09	350.42	0.00	17.19	333.23	--	--	--	--	--	--	--	--
VMW2	05/18/09	350.42	0.00	15.64	334.78	--	--	--	--	--	--	--	--
<b>VMW2</b>	<b>07/21/09</b>	<b>350.42</b>	<b>0.00</b>	<b>15.40</b>	<b>335.02</b>	--	--	--	--	--	--	--	--
VMW3	11/30/93	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	01/27/94	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	04/25/94	348.10	Trace	31.23	316.87	--	--	--	--	--	--	--	--
VMW3	07/08/94	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	02/21/95	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	05/03/95	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	08/04/95	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	11/10/95	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	02/12/96	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	05/17/96	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	08/12/96	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	11/08/96	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	02/12/97	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	03/17/97	348.10	0.00	31.29	316.81	--	--	--	--	--	--	--	--
VMW3	05/13/97	348.10	--	--	--	--	--	--	--	--	--	--	--
VMW3	08/12/97	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	10/31/97	348.10	0.00	31.21	316.89	--	--	--	--	--	--	--	--
VMW3	01/21/98	348.10	0.00	31.25	316.85	--	--	--	--	--	--	--	--
VMW3	04/24/98	348.10	0.00	31.21	316.89	--	--	--	--	--	--	--	--
VMW3	07/20/98	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	10/21/98	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	02/22/99	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	05/27/99	348.10	0.00	36.14	311.96	--	--	--	--	--	--	--	--
VMW3	09/16/99	348.10	0.00	31.32	316.78	--	--	--	--	--	--	--	--
VMW3	11/15/99	348.10	0.00	31.21	316.89	--	--	--	--	--	--	--	--
VMW3	03/02/00	348.10	0.00	31.14	316.96	--	--	--	--	--	--	--	--
VMW3	06/06/00	348.10	0.00	31.18	316.92	--	--	--	--	--	--	--	--



TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
VMW3	08/29/00	348.10	0.00	31.20	316.90	--	--	--	--	--	--	--	--
VMW3	11/07/00	348.10	0.00	31.20	316.90	--	--	--	--	--	--	--	--
VMW3	01/30/01	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	04/19/01	348.10	0.00	31.16	316.94	--	--	--	--	--	--	--	--
VMW3	07/27/01	348.10	0.00	31.29	316.81	--	--	--	--	--	--	--	--
VMW3	10/19/01	348.10	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	01/15/02	350.77	--	Dry	--	--	--	--	--	--	--	--	--
VMW3	04/09/02	350.77	0.00	30.79	319.98	--	--	--	--	--	--	--	--
VMW3	07/23/02	350.77	0.00	31.21	319.56	--	--	--	--	--	--	--	--
VMW3	10/16/02	350.77	0.00	31.19	319.58	--	--	--	--	--	--	--	--
VMW3	01/09/03	350.77	0.00	31.20	319.57	--	--	--	--	--	--	--	--
VMW3	04/14/03	350.77	0.00	30.10	320.67	--	--	--	--	--	--	--	--
VMW3	07/09/03	350.77	0.00	30.62	320.15	--	--	--	--	--	--	--	--
VMW3	10/01/03	350.77	0.00	29.78	320.99	--	--	--	--	--	--	--	--
VMW3	01/19/04	350.77	0.00	29.60	321.17	--	--	--	--	--	--	--	--
VMW3	04/01/04	350.77	0.00	29.62	321.15	--	--	--	--	--	--	--	--
VMW3	07/07/04	350.77	0.00	28.84	321.93	--	--	--	--	--	--	--	--
VMW3	10/12/04	350.77	0.00	27.57	323.20	--	--	--	--	--	--	--	--
VMW3	01/05/05	350.77	0.00	25.81	324.96	--	--	--	--	--	--	--	--
VMW3	04/14/05	350.77	0.00	21.51	329.26	--	--	--	--	--	--	--	--
VMW3	07/14/05	350.77	0.00	13.37	337.40	--	--	--	--	--	--	--	--
VMW3	10/17/05	350.77	0.00	13.05	337.72	--	--	--	--	--	--	--	--
VMW3	01/10/06	350.77	0.00	15.63	335.14	--	--	--	--	--	--	--	--
VMW3	04/05/06	350.77	0.00	13.01	337.76	--	--	--	--	--	--	--	--
VMW3	07/05/06	350.77	0.00	12.96	337.81	--	--	--	--	--	--	--	--
VMW3	10/04/06	350.77	0.00	11.82	338.95	--	--	--	--	--	--	--	--
VMW3	01/02/07	350.77	0.00	11.79	338.98	--	--	--	--	--	--	--	--
VMW3	04/03/07	350.77	0.00	8.02	342.75	--	--	--	--	--	--	--	--
VMW3	08/27/07	350.77	0.00	11.55	339.22	--	--	--	--	--	--	--	--
VMW3	11/21/07	350.77	0.00	11.85	338.92	--	--	--	--	--	--	--	--
VMW3	03/18/08	350.77	0.00	11.20	339.57	--	--	--	--	--	--	--	--
VMW3	06/06/08	350.77	0.00	10.90	339.87	--	--	--	--	--	--	--	--
VMW3	09/09/08	350.77	0.00	12.00	338.77	--	--	--	--	--	--	--	--
VMW3	12/16/08	350.77	0.00	11.29	339.48	--	--	--	--	--	--	--	--
VMW3	02/10/09	350.77	0.00	11.06	339.71	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
VMW3	05/18/09	350.77	0.00	9.83	340.94	--	--	--	--	--	--	--	--
<b>VMW3</b>	<b>07/21/09</b>	<b>350.77</b>	<b>0.00</b>	<b>9.89</b>	<b>340.88</b>	--	--	--	--	--	--	--	--
VMW4	11/30/93	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	01/27/94	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	04/25/94	347.95	--	31.41	316.54	--	--	--	--	--	--	--	--
VMW4	07/08/94	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	02/21/95	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	05/03/95	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	08/04/95	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	11/10/95	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	02/12/96	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	05/17/96	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	08/12/96	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	11/08/96	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	02/12/97	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	03/17/97	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	05/13/97	347.95	--	--	--	--	--	--	--	--	--	--	--
VMW4	08/12/97	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	10/31/97	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	01/21/98	347.95	0.00	10.95	337.00	--	--	--	--	--	--	--	--
VMW4	04/24/98	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	07/20/98	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	10/21/98	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	02/22/99	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	05/27/99	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	09/16/99	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	11/15/99	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	03/02/00	347.95	0.00	10.13	337.82	--	--	--	--	--	--	--	--
VMW4	06/06/00	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	08/29/00	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	11/07/00	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	01/30/01	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	04/19/01	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	07/27/01	347.95	--	Dry	--	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)							
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)
VMW4	10/19/01	347.95	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	01/15/02	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	04/09/02	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	07/23/02	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	10/16/02	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	01/09/03	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	04/14/03	350.32	--	9.60	340.72	--	--	--	--	--	--	--	--
VMW4	07/09/03	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	10/01/03	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	01/19/04	350.32	--	Dry	--	--	--	--	--	--	--	--	--
VMW4	04/01/04	350.32	0.00	12.63	337.69	--	--	--	--	--	--	--	--
VMW4	07/07/04	350.32	0.00	10.10	340.22	--	--	--	--	--	--	--	--
VMW4	10/12/04	350.32	0.00	8.83	341.49	--	--	--	--	--	--	--	--
VMW4	01/05/05	350.32	0.00	8.24	342.08	--	--	--	--	--	--	--	--
VMW4	04/14/05	350.32	0.00	8.40	341.92	--	--	--	--	--	--	--	--
VMW4	07/14/05	350.32	0.00	8.40	341.92	--	--	--	--	--	--	--	--
VMW4	10/17/05	350.32	0.00	8.41	341.91	--	--	--	--	--	--	--	--
VMW4	01/10/06	350.32	0.00	10.49	339.83	--	--	--	--	--	--	--	--
VMW4	04/05/06	350.32	0.00	7.70	342.62	--	--	--	--	--	--	--	--
VMW4	07/05/06	350.32	0.00	8.40	341.92	--	--	--	--	--	--	--	--
VMW4	10/04/06	350.32	0.00	8.87	341.45	--	--	--	--	--	--	--	--
VMW4	01/02/07	350.32	0.00	8.78	341.54	--	--	--	--	--	--	--	--
VMW4	04/03/07	350.32	0.00	8.50	341.82	--	--	--	--	--	--	--	--
VMW4	08/27/07	350.32	0.00	8.95	341.37	--	--	--	--	--	--	--	--
VMW4	11/21/07	350.32	0.00	8.85	341.47	--	--	--	--	--	--	--	--
VMW4	03/18/08	350.32	0.00	8.26	342.06	--	--	--	--	--	--	--	--
VMW4	06/06/08	350.32	0.00	8.30	342.02	--	--	--	--	--	--	--	--
VMW4	09/09/08	350.32	0.00	7.74	342.58	--	--	--	--	--	--	--	--
VMW4	12/16/08	350.32	0.00	7.00	343.32	--	--	--	--	--	--	--	--
VMW4	02/10/09	350.32	0.00	7.60	342.72	--	--	--	--	--	--	--	--
VMW4	05/18/09	350.32	0.00	7.56	342.76	--	--	--	--	--	--	--	--
<b>VMW4</b>	<b>07/21/09</b>	<b>350.32</b>	<b>0.00</b>	<b>7.82</b>	<b>342.50</b>	--	--	--	--	--	--	--	--
RW1	11/30/93	347.89	Trace	37.75	310.14	--	--	--	--	--	--	--	--
RW1	01/27/94	347.89	Trace	42.00	305.89	--	--	--	--	--	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d		
RW1	04/25/94	347.89	0.02	40.24	307.67	--	--	--	--	--	--	--	--
RW1	07/08/94	347.89	0.15	41.41	306.59	--	--	--	--	--	--	--	--
RW1	10/05/94	347.89	Trace	42.18	305.71	--	--	--	--	--	--	--	--
RW1	02/21/95	347.89	Trace	34.94	312.95	16,000	29,000	2,200	14,000	110,000	--	--	--
RW1	05/03/95	347.89	0.01	34.83	313.07	--	--	--	--	--	--	--	--
RW1	08/04/95	347.89	Trace	37.11	310.78	--	--	--	--	--	--	--	--
RW1	11/10/95	347.89	0.02	39.74	308.17	--	--	--	--	--	--	--	--
RW1	02/12/96	347.89	0.00	47.29	300.60	4,400	12,000	960	6,900	41,000	--	120	--
RW1	05/17/96	347.89	0.00	47.53	300.36	2,700	8,600	1,100	6,300	81,000	--	ND	--
RW1	08/12/96	347.89	0.00	39.75	308.14	12,000	25,000	2,200	15,000	140,000	--	ND	--
RW1	11/08/96	347.89	--	--	--	5,300	11,000	1,300	8,900	81,000	--	ND	--
RW1	02/12/97	347.89	0.00	46.50	301.39	--	--	--	--	--	--	--	--
RW1 <sup>a</sup>	03/17/97	347.89	0.00	49.30	298.59	3,600	12,000	710	7,400	38,000	--	ND	--
RW1 <sup>a</sup>	05/13/97	347.89	0.00	37.86	310.03	7,300	20,000	1,500	12,000	130,000	--	ND	--
RW1 <sup>a</sup>	08/12/97	347.89	0.00	40.77	307.12	9,200	19,000	1,300	7,000	72,000	--	1,000	ND
RW1 <sup>a</sup>	10/31/97	347.89	0.00	47.54	300.35	4,500	11,000	530	6,800	45,000	--	630	ND
RW1 <sup>a</sup>	01/21/98	347.89	0.00	46.71	301.18	570	1,300	120	2,500	23,000	--	ND	ND
RW1 <sup>a</sup>	04/24/98	347.89	0.00	--	--	1,300	3,400	250	4,000	28,000	--	ND	--
RW1 <sup>a</sup>	07/20/98	347.89	0.00	45.54	302.35	1,400	3,500	530	2,700	21,000	--	ND	ND
RW1 <sup>a</sup>	10/21/98	347.89	0.00	42.41	305.48	3,500	5,700	660	4,100	35,000	--	ND	25
RW1 <sup>a</sup>	02/22/99	347.89	0.00	41.25	306.64	1,100	1,700	220	3,000	28,000	--	ND	ND
RW1 <sup>a</sup>	05/27/99	347.89	0.00	41.39	306.50	1,400	1,800	320	3,000	23,000	--	ND	--
RW1 <sup>a</sup>	09/16/99	347.89	0.00	44.23	303.66	910	5,000	1,000	3,800	34,000	--	ND	--
RW1 <sup>a</sup>	11/15/99	347.89	0.00	43.28	304.61	66	98	29	1,000	11,000	--	34	--
RW1 <sup>a</sup>	03/02/00	347.89	0.00	41.02	306.87	870	1,500	490	3,000	26,000	--	120	<10
RW1	06/06/00	347.89	--	Dry	--	--	--	--	--	--	--	--	--
RW1 <sup>a</sup>	08/29/00	347.89	0.00	45.10	302.79	480	250	380	720	11,000	--	<10	--
RW1 <sup>a</sup>	11/07/00	347.89	0.00	43.63	304.26	590	230	350	980	16,000	--	<100	--
RW1 <sup>a</sup>	01/30/01	347.89	0.00	44.81	303.08	390	89	340	240	9,900	--	<100	--
RW1 <sup>a</sup>	04/19/01	347.89	0.00	44.02	303.87	600	130	350	440	10,000	--	<100	<7
RW1 <sup>a</sup>	07/27/01	347.89	0.00	44.15	303.74	640	200	280	640	11,000	--	<5.0	--
RW1 <sup>a</sup>	10/19/01	347.89	0.00	44.72	303.17	810	130	500	580	12,000	--	<5.0	5
RW1 <sup>a</sup>	01/15/02	350.43	0.00	43.25	307.18	1,020	290	572	964	16,100	--	124	6.9
RW1 <sup>a</sup>	04/09/02	350.43	0.00	45.44	304.99	786	102	523	366	10,100	--	79.0	--
RW1 <sup>a</sup>	07/23/02	350.43	0.00	45.98	304.45	974	93	573	390	9,300	--	57.0	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
RW1 <sup>a</sup>	10/16/02	350.43	0.00	43.73	306.70	971	150	490	653	10,700	--	<5.0	--
RW1 <sup>a</sup>	01/09/03	350.43	0.00	41.57	308.86	990	298	510	1,130	16,000	--	--	6.60
RW1 <sup>a</sup>	04/14/03	350.43	0.00	43.87	306.56	1,250	103	598	815	10,700	--	--	4.60
RW1 <sup>a</sup>	07/09/03	350.43	0.00	43.40	307.03	1,390	109	660	820	11,100	--	53.3	4.20
RW1 <sup>a</sup>	10/01/03	350.43	0.00	44.19	306.24	1,440	54.0	582	490	10,600	--	78.0	3.20
RW1 <sup>a</sup>	01/19/04	350.43	0.00	44.33	306.10	722	27.3	168	199	6,860	--	--	3.20
RW1 <sup>a</sup>	04/01/04	350.43	0.00	43.90	306.53	760	37.7	180	130	6,450	--	--	2.40
RW1 <sup>a</sup>	07/07/04	350.43	0.00	44.25	306.18	663	51.1	180	183	4,760	--	--	2.60
RW1 <sup>a</sup>	10/12/04	350.43	0.00	44.75	305.68	691	30.0	139	158	6,670	--	--	<0.5
RW1 <sup>a</sup>	01/05/05	350.43	0.00	44.57	305.86	299	29.7	107	81.3	5,750	--	--	0.90
RW1 <sup>a</sup>	04/14/05	350.43	0.00	40.10	310.33	99.7	134	187	600	7,520	--	--	<0.5
RW1 <sup>a</sup>	07/14/05	350.43	0.00	42.87	307.56	2,730	--	116	7.3	109	21.8	--	<0.5
RW1 <sup>a</sup>	10/17/05	350.43	0.00	43.46	306.97	54.6	4.93	52.7	15.5	1,740	--	--	<0.5
RW1 <sup>a</sup>	01/10/06	350.43	0.00	41.61	308.82	39	13	76	500	3,200	--	--	<2.5
RW1 <sup>a</sup>	04/05/06	350.43	0.00	39.65	310.78	11	15	59	550	2,300	--	--	<0.500
RW1 <sup>a</sup>	07/05/06	350.43	0.00	37.86	312.57	<0.50	0.57	<0.50	1.00	<50.0	--	--	<0.500
RW1 <sup>a</sup>	10/04/06	350.43	0.00	31.60	318.83	0.72	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW1 <sup>a</sup>	01/02/07	350.43	0.00	40.43	310.00	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW1 <sup>a</sup>	04/03/07	350.43	0.00	38.23	312.20	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW1 <sup>a</sup>	08/27/07	350.43	0.00	41.41	309.02	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW1 <sup>a</sup>	11/21/07	350.43	0.00	39.64	310.79	<0.50	<0.50	<0.50	<0.50	53	--	--	<0.50
RW1 <sup>a</sup>	03/18/08	350.43	0.00	36.90	313.53	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW1 <sup>a</sup>	06/06/08	350.43	0.00	38.30	312.13	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW1 <sup>a</sup>	09/09/08	350.43	0.00	42.75	307.68	<0.50	<0.50	<0.50	<0.50	100	--	--	<0.50
RW1 <sup>a</sup>	12/16/08	350.43	0.00	43.00	307.43	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW1 <sup>a</sup>	02/10/09	350.43	0.00	42.47	307.96	<0.50	<0.50	<0.50	<0.50	230	--	--	<0.50
RW1 <sup>a</sup>	05/18/09	350.43	0.00	41.10	309.33	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
<b>RW1<sup>a</sup></b>	<b>07/21/09</b>	<b>350.43</b>	<b>0.00</b>	<b>42.69</b>	<b>307.74</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	--	--	<b>&lt;0.50</b>
RW2	10/05/94	347.82	0.00	43.33	304.49	6,500	6,300	1,000	5,400	41,000	--	--	--
RW2	02/21/95	347.82	0.00	35.05	312.77	6,200	2,600	1,400	5,600	45,000	--	--	--
RW2	05/03/95	347.82	0.00	35.11	312.71	3,600	2,000	1,000	5,700	30,000	--	--	--
RW2	08/04/95	347.82	0.00	37.35	310.47	4,100	1,400	810	3,200	21,000	--	ND	--
RW2	11/10/95	347.82	0.00	41.02	306.80	2,600	990	810	2,700	26,000	--	--	--
RW2	02/12/96	347.82	0.00	38.63	309.19	600	600	230	1,900	10,000	--	ND	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
RW2	05/17/96	347.82	0.00	48.56	299.26	300	64	86	470	4,000	--	10	--
RW2	08/12/96	347.82	0.00	44.74	303.08	1,100	36	320	190	5,400	--	ND	--
RW2	11/08/96	347.82	--	--	--	480	48	150	150	3,500	--	ND	--
RW2	02/12/97	347.82	0.00	48.10	299.72	--	--	--	--	--	--	--	--
RW2 <sup>a</sup>	03/17/97	347.82	0.00	50.90	296.92	180	21	42	56	1,100	--	ND	--
RW2 <sup>a</sup>	05/13/97	347.82	0.00	38.11	309.71	680	93	150	300	3,500	--	ND	--
RW2 <sup>a</sup>	08/12/97	347.82	0.00	44.22	303.60	180	6.7	44	27	1,200	--	ND	--
RW2 <sup>a</sup>	10/31/97	347.82	0.00	49.13	298.69	8.9	3.6	1.5	90	440	--	ND	--
RW2 <sup>a</sup>	01/21/98	347.82	0.00	49.39	298.43	ND	ND	ND	ND	ND	--	ND	--
RW2 <sup>a</sup>	04/24/98	347.82	--	--	--	100	12	46	77	3,000	--	28	ND
RW2 <sup>a</sup>	07/20/98	347.82	0.00	47.16	300.66	20	6.9	7.7	9.6	480	--	ND	--
RW2 <sup>a</sup>	10/21/98	347.82	0.00	46.08	301.74	4.4	6.1	2.8	3.9	780	--	ND	--
RW2 <sup>a</sup>	02/22/99	347.82	0.00	44.31	303.51	87	11	33	27	2,300	--	ND	--
RW2 <sup>a</sup>	05/27/99	347.82	0.00	44.15	303.67	1.4	4.5	0.6	1.7	310	--	ND	--
RW2 <sup>a</sup>	09/16/99	347.82	0.00	47.97	299.85	ND	ND	ND	ND	260	--	ND	--
RW2 <sup>a</sup>	11/15/99	347.82	0.00	49.44	298.38	ND	ND	ND	ND	ND	--	ND	--
RW2 <sup>a</sup>	03/02/00	347.82	0.00	45.70	302.12	<1.0	<1.0	<1.0	<0.60	180	--	<10	--
RW2 <sup>a</sup>	06/06/00	347.82	0.00	45.62	302.20	7.2	6.9	5.1	24	250	--	<0.30	--
RW2 <sup>a</sup>	08/29/00	347.82	0.00	50.69	297.13	0.38	1.0	<0.30	<0.60	<50	--	<10	--
RW2 <sup>a</sup>	11/07/00	347.82	0.00	48.40	299.42	0.32	0.32	0.22	<0.60	<20	--	<0.30	--
RW2 <sup>a</sup>	01/30/01	347.82	0.00	50.37	297.45	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW2 <sup>a</sup>	04/19/01	347.82	0.00	48.06	299.76	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW2 <sup>a</sup>	07/27/01	347.82	0.00	48.82	299.00	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
RW2 <sup>a</sup>	10/19/01	347.82	0.00	50.24	297.58	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
RW2 <sup>a</sup>	01/15/02	350.42	0.00	46.88	303.54	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
RW2 <sup>a</sup>	04/09/02	350.42	0.00	50.86	299.56	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
RW2	07/23/02	350.42	0.00	51.77	298.65	--	--	--	--	--	--	--	--
RW2 <sup>a</sup>	10/16/02	350.42	0.00	47.01	303.41	<0.5	<0.5	<0.5	<0.5	<50.0	--	<0.5	--
RW2 <sup>a</sup>	01/09/03	350.42	0.00	43.42	307.00	17	30.1	51.9	110	1,020	--	--	<0.50
RW2 <sup>a</sup>	04/14/03	350.42	0.00	46.45	303.97	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	<0.50
RW2 <sup>a</sup>	07/09/03	350.42	0.00	46.12	304.30	<0.5	0.7	<0.5	0.7	76.6	--	<0.5	<0.5
RW2 <sup>a</sup>	10/01/03	350.42	0.00	47.15	303.27	<0.5	<0.5	<0.5	<0.5	<50	--	<0.5	<0.5
RW2 <sup>a</sup>	01/19/04	350.42	0.00	46.35	304.07	<0.5	<0.5	<0.5	<0.5	57.8	--	--	<0.5
RW2 <sup>a</sup>	04/01/04	350.42	0.00	45.71	304.71	<1.0	<1.0	<1.0	<3.0	<100	--	--	<0.5
RW2 <sup>a</sup>	07/07/04	350.42	0.00	44.92	305.50	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
RW2 <sup>a</sup>	10/12/04	350.42	0.00	40.83	309.59	<0.5	2.7	0.6	4.4	<50	--	--	<0.5
RW2 <sup>a</sup>	01/05/05	350.42	0.00	41.01	309.41	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW2 <sup>a</sup>	04/14/05	350.42	0.00	39.14	311.28	<0.5	<0.5	<0.5	1.1	<50	--	--	<0.5
RW2 <sup>a</sup>	07/14/05	350.42	0.00	39.20	311.22	<50	--	<0.5	<0.5	<0.5	<0.5	--	<0.5
RW2 <sup>a</sup>	10/17/05	350.42	0.00	38.99	311.43	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW2 <sup>a</sup>	01/10/06	350.42	0.00	39.11	311.31	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW2 <sup>a</sup>	04/05/06	350.42	0.00	38.04	312.38	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.500
RW2 <sup>a</sup>	07/05/06	350.42	0.00	36.85	313.57	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW2 <sup>a</sup>	10/04/06	350.42	0.00	38.87	311.55	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW2 <sup>a</sup>	01/02/07	350.42	0.00	38.92	311.50	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW2 <sup>a</sup>	04/03/07	350.42	0.00	37.41	313.01	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW2 <sup>a</sup>	08/27/07	350.42	0.00	38.96	311.46	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW2 <sup>a</sup>	11/21/07	350.42	0.00	38.47	311.95	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW2 <sup>a</sup>	03/18/08	350.42	0.00	36.62	313.80	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW2 <sup>a</sup>	06/06/08	350.42	0.00	37.43	312.99	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW2 <sup>a</sup>	09/09/08	350.42	0.00	40.30	310.12	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW2 <sup>a</sup>	12/16/08	350.42	0.00	39.36	311.06	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW2 <sup>a</sup>	02/10/09	350.42	0.00	39.40	311.02	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW2 <sup>a</sup>	05/18/09	350.42	0.00	39.20	311.22	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
<b>RW2<sup>a</sup></b>	<b>07/21/09</b>	<b>350.42</b>	<b>0.00</b>	<b>38.89</b>	<b>311.53</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	--	--	<b>&lt;0.50</b>
RW3	10/05/94	347.92	0.00	44.66	303.26	120	180	26	170	1,600	--	--	--
RW3	02/21/95	347.92	0.00	39.85	308.07	67	30	12	48	620	--	--	--
RW3	05/03/95	347.92	0.00	40.12	307.80	31	28	6.0	40	780	--	--	--
RW3	08/04/95	347.92	0.00	41.84	306.08	37	14	ND	19	190	--	8.1	--
RW3	11/10/95	347.92	0.00	44.45	303.47	19	5.0	ND	4.4	160	--	--	--
RW3	02/12/96	347.92	0.00	42.62	305.30	0.78	2.0	ND	2.0	ND	--	1.4	--
RW3	05/17/96	347.92	0.00	48.90	299.02	2.8	0.5	ND	ND	52	--	3.6	--
RW3	08/12/96	347.92	0.00	43.71	304.21	0.87	ND	ND	ND	ND	--	ND	--
RW3	11/08/96	347.92	--	--	--	28	3.3	1.2	4.5	110	--	ND	--
RW3	02/12/97	347.92	0.00	48.82	299.10	--	--	--	--	--	--	--	--
RW3 <sup>a</sup>	03/17/97	347.92	0.00	51.61	296.31	ND	ND	ND	ND	ND	--	ND	--
RW3 <sup>a</sup>	05/13/97	347.92	0.00	38.22	309.70	180	190	6.8	79	960	--	ND	--



TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
RW3 <sup>a</sup>	08/12/97	347.92	0.00	44.15	303.77	20	11	2.1	17	160	--	4.8	--
RW3 <sup>a</sup>	10/31/97	347.92	0.00	48.18	299.74	11	14	4.4	32	330	--	10	--
RW3 <sup>a</sup>	01/21/98	347.92	0.00	46.31	301.61	1.4	0.9	0.4	2.1	50	--	ND	--
RW3 <sup>a</sup>	04/24/98	347.92	--	--	--	ND	ND	ND	ND	ND	--	ND	--
RW3 <sup>a</sup>	07/20/98	347.92	0.00	46.81	301.11	0.6	1.0	ND	ND	80	--	ND	--
RW3	10/21/98	347.92	--	Dry	--	--	--	--	--	--	--	--	--
RW3 <sup>a</sup>	02/22/99	347.92	0.00	44.17	303.75	ND	ND	ND	ND	ND	--	ND	--
RW3 <sup>a</sup>	05/27/99	347.92	0.00	44.40	303.52	ND	ND	ND	ND	ND	--	ND	--
RW3 <sup>a,f</sup>	09/16/99	347.92	0.00	44.58	303.34	960	5,700	1,200	5,000	45,000	--	200	--
RW3 <sup>a,f</sup>	10/04/99	347.92	--	--	--	ND	0.6	ND	ND	ND	--	ND	--
RW3 <sup>a</sup>	11/15/99	347.92	0.00	48.32	299.60	ND	ND	1.2	3.3	93	--	ND	--
RW3 <sup>a</sup>	03/02/00	347.92	0.00	47.60	300.32	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
RW3 <sup>a</sup>	06/06/00	347.92	0.00	45.58	302.34	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW3 <sup>a</sup>	08/29/00	347.92	0.00	47.72	300.20	<0.30	0.47	<0.30	<0.60	<50	--	<10	--
RW3 <sup>a</sup>	11/07/00	347.92	0.00	47.18	300.74	<0.20	<0.20	<0.20	<0.60	<20	--	1.8	--
RW3 <sup>a</sup>	01/30/01	347.92	0.00	47.72	300.20	<0.20	<0.20	<0.20	<0.60	33	--	4.3	<5
RW3 <sup>a</sup>	04/19/01	347.92	0.00	45.73	302.19	<0.20	<0.20	0.34	<0.60	<20	--	0.33	--
RW3 <sup>a</sup>	07/27/01	347.92	0.00	46.61	301.31	<0.20	<0.20	<0.20	<0.60	<50	--	1.3	<2
RW3 <sup>a</sup>	10/19/01	347.92	0.00	46.96	300.96	<0.20	<0.20	<0.20	<0.60	<50	--	1.5	<2
RW3 <sup>a</sup>	01/15/02	350.53	0.00	44.98	305.55	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
RW3 <sup>a</sup>	04/09/02	350.53	0.00	46.80	303.73	<0.50	<0.50	<0.50	<0.50	<50.0	--	1.00	--
RW3 <sup>a</sup>	07/23/02	350.53	0.00	47.42	303.11	<0.50	<0.50	<0.50	<0.50	<50.0	--	1.90	--
RW3 <sup>a</sup>	10/16/02	350.53	0.00	46.42	304.11	<0.5	<0.5	<0.5	<0.5	<50.0	--	1.0	--
RW3 <sup>a</sup>	01/09/03	350.53	0.00	44.02	306.51	<0.5	<0.5	<0.5	<0.5	<50.0	--	--	<0.5
RW3 <sup>a</sup>	04/14/03	350.53	0.00	44.97	305.56	<0.5	<0.5	<0.5	<0.5	<50.0	--	--	<0.5
RW3 <sup>a</sup>	07/09/03	350.53	0.00	44.96	305.57	<0.5	0.6	<0.5	<0.5	<50	--	<0.5	<0.5
RW3 <sup>a</sup>	10/01/03	350.53	0.00	45.81	304.72	<0.5	<0.5	<0.5	<0.5	<50	--	0.6	<0.5
RW3 <sup>a</sup>	01/19/04	350.53	0.00	44.81	305.72	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		
RW3 <sup>a</sup>	04/01/04	350.53	0.00	45.10	305.43	<1.0	2.5	<1.0	5.1	<100	--	--	<0.5
RW3 <sup>a</sup>	07/07/04	350.53	0.00	45.57	304.96	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW3 <sup>a</sup>	10/12/04	350.53	0.00	45.79	304.74	<0.5	3.5	0.8	5.9	<50	--	--	<0.5
RW3 <sup>a</sup>	01/05/05	350.53	0.00	45.63	304.90	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW3 <sup>a</sup>	04/14/05	350.53	0.00	41.91	308.62	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW3 <sup>a</sup>	07/14/05	350.53	0.00	44.37	306.16	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW3 <sup>a</sup>	10/17/05	350.53	0.00	43.57	306.96	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW3 <sup>a</sup>	01/10/06	350.53	0.00	42.37	308.16	<0.5	1.4	<0.5	1.5	<50	--	--	<0.5
RW3 <sup>a</sup>	04/05/06	350.53	0.00	40.35	310.18	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.500
RW3 <sup>a</sup>	07/05/06	350.53	0.00	39.03	311.50	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW3 <sup>a</sup>	10/04/06	350.53	0.00	41.68	308.85	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW3 <sup>a</sup>	01/02/07	350.53	0.00	40.59	309.94	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW3 <sup>a</sup>	04/03/07	350.53	0.00	38.00	312.53	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW3 <sup>a</sup>	08/27/07	350.53	0.00	41.95	308.58	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW3 <sup>a</sup>	11/21/07	350.53	0.00	39.87	310.66	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW3 <sup>a</sup>	03/18/08	350.53	0.00	36.99	313.54	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW3 <sup>a</sup>	06/06/08	350.53	0.00	38.69	311.84	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW3 <sup>a</sup>	09/09/08	350.53	0.00	43.78	306.75	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW3 <sup>a</sup>	12/16/08	350.53	0.00	44.20	306.33	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW3 <sup>a</sup>	02/10/09	350.53	0.00	43.29	307.24	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW3 <sup>a</sup>	05/18/09	350.53	0.00	41.47	309.06	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
<b>RW3<sup>a</sup></b>	<b>07/21/09</b>	<b>350.53</b>	<b>0.00</b>	<b>43.39</b>	<b>307.14</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	--	--	<b>&lt;0.50</b>
RW4	10/05/94	348.29	0.00	42.62	305.67	11	4.9	1.5	9.2	130	--	--	--
RW4	02/21/95	348.29	0.02	35.40	312.91	--	--	--	--	--	--	--	--
RW4	05/03/95	348.29	0.00	35.03	313.26	--	--	--	--	--	--	--	--
RW4	05/04/95	348.29	--	--	--	330	130	120	410	2,900	--	--	--
RW4	08/04/95	348.29	0.00	37.62	310.67	63	ND	14	2.1	520	--	6.1	--
RW4	11/10/95	348.29	0.00	40.26	308.03	94	28	31	43	450	--	--	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)						MTBE (8020 or 8021)	MTBE (8260)
						Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d		
RW4	02/12/96	348.29	0.00	36.84	311.45	1.5	2.0	2.9	2.4	52	--	4.0	--
RW4	05/17/96	348.29	0.00	36.58	311.71	7.7	2.3	26	1.4	160	--	ND	--
RW4	08/12/96	348.29	0.00	38.96	309.33	ND	ND	ND	ND	ND	--	ND	--
RW4	11/08/96	348.29	--	--	--	ND	ND	ND	ND	ND	--	ND	--
RW4	02/12/97	348.29	0.00	34.95	313.34	--	--	--	--	--	--	--	--
RW4 <sup>a</sup>	03/17/97	348.29	0.00	37.75	310.54	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	05/13/97	348.29	0.00	38.36	309.93	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	08/12/97	348.29	0.00	41.28	307.01	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	10/31/97	348.29	0.00	41.75	306.54	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	01/21/98	348.29	0.00	41.61	306.68	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	04/24/98	348.29	--	--	--	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	07/20/98	348.29	0.00	49.94	298.35	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	10/21/98	348.29	--	Dry	--	--	--	--	--	--	--	--	--
RW4 <sup>a</sup>	02/22/99	348.29	0.00	41.80	306.49	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	05/27/99	348.29	0.00	42.06	306.23	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	09/16/99	348.29	0.00	44.87	303.42	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	11/15/99	348.29	0.00	44.60	303.69	ND	ND	ND	ND	ND	--	ND	--
RW4 <sup>a</sup>	03/02/00	348.29	0.00	41.48	306.81	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
RW4 <sup>a</sup>	06/06/00	348.29	0.00	43.41	304.88	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW4 <sup>a</sup>	08/29/00	348.29	0.00	45.38	302.91	<0.30	<0.30	<0.30	<0.60	<50	--	<10	--
RW4 <sup>a</sup>	11/07/00	348.29	0.00	43.99	304.30	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW4 <sup>a</sup>	01/30/01	348.29	0.00	45.12	303.17	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW4 <sup>a</sup>	04/19/01	348.29	0.00	44.42	303.87	<0.20	<0.20	<0.20	<0.60	<20	--	<0.30	--
RW4 <sup>a</sup>	07/27/01	348.29	0.00	44.54	303.75	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
RW4 <sup>a</sup>	10/19/01	348.29	0.00	45.09	303.20	<0.20	<0.20	<0.20	<0.60	<50	--	<0.30	--
RW4 <sup>a</sup>	01/15/02	350.92	0.00	43.68	307.24	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
RW4 <sup>a</sup>	04/09/02	350.92	0.00	45.79	305.13	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
RW4 <sup>a</sup>	07/23/02	350.92	0.00	46.43	304.49	<0.50	<0.50	<0.50	<0.50	<50.0	--	<0.50	--
RW4 <sup>a</sup>	10/16/02	350.92	0.00	44.06	306.86	<0.5	<0.5	<0.5	<0.5	<50.0	--	<0.5	--

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)							
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	MTBE (8020 or 8021)	MTBE (8260)
RW4 <sup>a</sup>	01/09/03	350.92	0.00	41.97	308.95	0.70	<0.5	<0.5	<0.5	64.9	--	--	<0.50
RW4 <sup>a</sup>	04/14/03	350.92	0.00	44.17	306.75	<0.5	<0.5	<0.5	<0.5	<50.0	--	--	<0.50
RW4 <sup>a</sup>	07/09/03	350.92	0.00	43.83	307.09	<0.5	0.7	<0.5	<0.5	<50	--	<0.5	<0.5
RW4 <sup>a</sup>	10/01/03	350.92	0.00	44.60	306.32	<0.5	<0.5	<0.5	<0.5	<50	--	<0.5	<0.5
RW4 <sup>a</sup>	01/19/04	350.92	0.00	44.73	306.19	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	04/01/04	350.92	0.00	44.34	306.58	<1.0	2.1	<1.0	4.5	<100	--	--	<0.5
RW4 <sup>a</sup>	07/07/04	350.92	0.00	44.61	306.31	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	10/12/04	350.92	0.00	45.27	305.65	<0.5	2.7	0.5	3.8	<50	--	--	<0.5
RW4 <sup>a</sup>	01/05/05	350.92	0.00	44.91	306.01	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	04/14/05	350.92	0.00	40.77	310.15	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	07/14/05	350.92	0.00	43.54	307.38	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	10/17/05	350.92	0.00	44.36	306.56	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	01/10/06	350.92	0.00	42.50	308.42	<0.5	<0.5	<0.5	<0.5	<50	--	--	<0.5
RW4 <sup>a</sup>	04/05/06	350.92	0.00	40.60	310.32	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.500
RW4 <sup>a</sup>	07/05/06	350.92	0.00	38.67	312.25	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW4 <sup>a</sup>	10/04/06	350.92	0.00	41.60	309.32	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW4 <sup>a</sup>	01/02/07	350.92	0.00	41.46	309.46	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW4 <sup>a</sup>	04/03/07	350.92	0.00	39.16	311.76	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW4 <sup>a</sup>	08/27/07	350.92	0.00	42.50	308.42	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW4 <sup>a</sup>	11/21/07	350.92	0.00	41.27	309.65	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW4 <sup>a</sup>	03/18/08	350.92	0.00	38.21	312.71	<0.50	<0.50	<0.50	<0.50	<50.0	--	--	<0.500
RW4 <sup>a</sup>	06/06/08	350.92	0.00	39.80	311.12	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW4 <sup>a</sup>	09/09/08	350.92	0.00	43.43	307.49	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW4 <sup>a</sup>	12/16/08	350.92	0.00	44.31	306.61	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW4 <sup>a</sup>	02/10/09	350.92	0.00	43.65	307.27	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
RW4 <sup>a</sup>	05/18/09	350.92	0.00	42.20	308.72	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50
<b>RW4<sup>a</sup></b>	<b>07/21/09</b>	<b>350.92</b>	<b>0.00</b>	<b>44.10</b>	<b>306.82</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;50</b>	<b>--</b>	<b>--</b>	<b>&lt;0.50</b>

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Casing Elevation (feet)	Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)					
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d

Notes:

- a Sampled using no-purge method.
  - c Well inaccessible.
  - d Insufficient amount of water for sample collection.
  - e Reported by laboratory as non-gasoline mixture.
  - f Due to an anomalous analytical result on 16 September 1999, RW3 was resampled on 4 October 1999.
  - g The Relative Percent Difference between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.
  - h Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- ND Not detected at or above laboratory reporting limit.
- TPH-d Total Petroleum Hydrocarbons as diesel.
- TPH-g Total Petroleum Hydrocarbons as gasoline.
- Trace Product present but too thin to be measured.
- µg/L Micrograms per liter.
- Not measured/not analyzed.

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
MW1 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	04/14/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW1 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW1 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.50	<0.500
MW1 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW1 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	97.6	<0.500	<0.500	<0.500
MW1 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW1 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW1 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW1 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW1 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>MW1<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
MW2 <sup>a</sup>	01/21/98	ND	--	--	--	--	--	--

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
MW2 <sup>a</sup>	05/27/99	ND	--	--	--	--	--	--
MW2 <sup>a</sup>	11/15/99	<5	--	--	--	--	--	--
MW2 <sup>a</sup>	11/07/00	<5	--	--	--	--	--	--
MW2 <sup>a</sup>	04/19/01	<5	--	--	--	--	--	--
MW2 <sup>a</sup>	01/15/02	<0.5	--	--	--	--	--	--
MW2 <sup>a</sup>	04/09/02	<2.5	--	--	--	--	--	--
MW2 <sup>a</sup>	07/23/02	<1.0	--	--	--	--	--	--
MW2 <sup>a</sup>	10/16/02	<0.50	--	--	--	--	--	--
MW2 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW2 <sup>a</sup>	04/14/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW2 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW2 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	0.59	<0.5
MW2 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	1.11	<0.500
MW2 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	0.950	<0.500
MW2 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	0.830	<0.500
MW2 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	0.750	<0.500
MW2 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	0.550	<0.500
MW2 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW2 <sup>a</sup>	11/21/07	<0.50	<0.50	0.55	<20	<0.50	0.69	<0.50
MW2 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	0.920	<0.500



TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
MW2 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	0.93	<0.50
MW2 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	0.87	<0.50
MW2 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW2 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW2 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	2.9 b	<0.50	0.74	<0.50
<b>MW2<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>0.53</b>	<b>&lt;0.50</b>
MW4 <sup>a</sup>	01/15/02	<0.5	--	--	--	--	--	--
MW4 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	1.2	<0.50
MW4 <sup>a</sup>	04/14/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW4 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	0.60	<0.5
MW4 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW4 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW4 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.66	<0.500
MW4 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW4 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW4 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW4 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW4 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW4 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
MW4 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW4 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW4 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW4 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	0.081 b	<0.50
MW4 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>MW4<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
MW6 <sup>a</sup>	01/15/02	<0.5	--	--	--	--	--	--
MW6 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	04/14/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW6 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW6 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.65	<0.500
MW6 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW6 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW6 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW6 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW6 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
MW6 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW6 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>MW6<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
MW10	01/09/03	0.60	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW10 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW10 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW10 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW10 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW10 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW10 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW11 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW11 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW11 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW11 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW11 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW11 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW11 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW11 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.59	<0.500
MW11 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW11 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW11 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW11 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
MW11 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>MW11<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
MW12 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
MW12 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW12 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
MW12 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
MW12 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW12 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
MW12 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	08/12/97	ND	--	--	--	--	--	--
RW1 <sup>a</sup>	10/31/97	ND	--	--	--	--	--	--
RW1 <sup>a</sup>	01/21/98	ND	--	--	--	--	--	--
RW1 <sup>a</sup>	07/20/98	ND	--	--	--	--	--	--
RW1 <sup>a</sup>	10/21/98	25	--	--	--	--	--	--
RW1 <sup>a</sup>	02/22/99	ND	--	--	--	--	--	--
RW1 <sup>a</sup>	03/02/00	<10	--	--	--	--	--	--
RW1 <sup>a</sup>	04/19/01	<7	--	--	--	--	--	--
RW1 <sup>a</sup>	10/19/01	5	--	--	--	--	--	--
RW1 <sup>a</sup>	01/15/02	6.9	--	--	--	--	--	--
RW1 <sup>a</sup>	01/09/03	6.60	<0.50	<0.50	197	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	04/14/03	4.60	<0.50	<0.50	93.2	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	07/09/03	4.20	<0.5	<0.5	87.9	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	10/01/03	3.20	<0.5	<0.5	64.1	<0.5	27.4	<0.5
RW1 <sup>a</sup>	01/19/04	3.20	<0.5	<0.5	122	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	04/01/04	2.40	<0.5	4.30	27.0	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	07/07/04	2.60	<0.5	<0.5	148	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	01/05/05	0.90	<0.5	<0.5	40.4	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	04/14/05	<0.5	<0.5	1.20	42.4	<0.5	1.80	<0.5

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
RW1 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW1 <sup>a</sup>	01/10/06	<2.5	<2.5	<2.5	<100	<2.5	2.6	<2.5
RW1 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW1 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.55	<0.500
RW1 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW1 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW1 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW1 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW1 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	0.50	<0.50
RW1 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW1 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	6.4 b	<0.50	<0.50	<0.50
RW1 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<b>RW1<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
RW2 <sup>a</sup>	04/24/98	ND	--	--	--	--	--	--
RW2 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	1.7	<0.50
RW2 <sup>a</sup>	04/14/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW2 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	1.10	<0.5
RW2 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
RW2 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW2 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW2 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.57	<0.500
RW2 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW2 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW2 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW2 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW2 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	0.50	<0.50
RW2 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW2 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW2 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW2 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW2 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW2 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>RW2<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
RW3 <sup>a</sup>	01/30/01	<5	--	--	--	--	--	--
RW3 <sup>a</sup>	07/27/01	<2	--	--	--	--	--	--
RW3 <sup>a</sup>	10/19/01	<2	--	--	--	--	--	--
RW3 <sup>a</sup>	01/09/03	<0.5	<0.50	<0.50	<10	<0.50	3.2	<0.50
RW3 <sup>a</sup>	04/14/03	<0.5	<0.50	<0.50	<10	<0.50	3.2	<0.50
RW3 <sup>a</sup>	07/09/03	<0.5	<0.50	<0.50	<10	<0.50	3.40	<0.50
RW3 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	4.10	<0.5
RW3 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	3.40	<0.5
RW3 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW3 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	4.80	<0.5
RW3 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	4.70	<0.5

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
RW3 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	4.60	<0.5
RW3 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW3 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW3 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW3 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW3 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW3 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.67	<0.500
RW3 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW3 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW3 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW3 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW3 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW3 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW3 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW3 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW3 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW3 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW3 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>RW3<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
RW4 <sup>a</sup>	01/09/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	04/14/03	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	07/09/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	10/01/03	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	01/19/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	04/01/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	07/07/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	10/12/04	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	01/05/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5



TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J, 1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations (µg/L)						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
RW4 <sup>a</sup>	04/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	07/14/05	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	10/17/05	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	01/10/06	<0.5	<0.5	<0.5	<20	<0.5	<0.5	<0.5
RW4 <sup>a</sup>	04/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW4 <sup>a</sup>	07/05/06	<0.500	<0.500	<0.500	<10.0	<0.500	2.71	<0.500
RW4 <sup>a</sup>	10/04/06	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW4 <sup>a</sup>	01/02/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW4 <sup>a</sup>	04/03/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW4 <sup>a</sup>	08/27/07	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW4 <sup>a</sup>	11/21/07	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	03/18/08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500
RW4 <sup>a</sup>	06/06/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	09/09/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	12/16/08	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	02/10/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
RW4 <sup>a</sup>	05/18/09	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50
<b>RW4<sup>a</sup></b>	<b>07/21/09</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>

Notes:

- a Sampled using no-purge method.
- b Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

1,2-DCA 1,2-Dichloroethane.  
 DIPE Diisopropyl ether.  
 EDB 1,2-Dibromoethane.  
 ETBE Ethyl tertiary butyl ether.  
 MTBE Methyl tertiary butyl ether.  
 ND Not detected at or above laboratory reporting limit.

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES, FORMER MOBIL STATION 04H6J,  
1024 MAIN STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Concentrations ( $\mu\text{g/L}$ )						
		MTBE	ETBE	TAME	TBA	EDB	1,2-DCA	DIPE
TAME	Tertiary amyl methyl ether.							
TBA	Tertiary butyl alcohol.							
--	Not analyzed.							
$\mu\text{g/L}$	Micrograms per liter.							

TABLE 4

GROUNDWATER MONITORING PLAN, FORMER MOBIL STATION 04H6J,  
1024 MAIN STREET, PLEASANTON, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	Other Oxygenates and Additives
MW1	SA	SA	SA	SA
MW2	SA	SA	SA	SA
MW3	SA	--	--	--
MW4	SA	SA	SA	SA
MW5	SA	--	--	--
MW6	SA	SA	SA	SA
MW7	SA	--	--	--
MW8	SA	--	--	--
MW10	SA	A	A	A
MW11	SA	SA	SA	SA
MW12	SA	A	A	A
RW1	SA	SA	SA	SA
RW2	SA	SA	SA	SA
RW3	SA	SA	SA	SA
RW4	SA	SA	SA	SA
VMW1	SA	--	--	--
VMW2	SA	--	--	--
VMW3	SA	--	--	--
VMW4	SA	--	--	--

Notes: Oxygenates and additives include diisopropyl ether, tertiary butyl alcohol, tertiary amyl methyl ether, ethyl tertiary butyl ether, 1,2-dibromoethane, and 1,2-dichloroethane.

A Annually (during the first quarter of each year).  
 BTEX Benzene, toluene, ethylbenzene, and xylenes.  
 MTBE Methyl tertiary butyl ether.  
 SA Semi-annually (during the first and third quarters of each year).  
 TPH-g Total Petroleum Hydrocarbons as gasoline.  
 -- Not sampled.

**Appendix A**  
**Field Protocols**

## **PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING**

### **GROUNDWATER GAUGING**

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the well is considered "dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not sampled.

### **WELL PURGING**

Wells at this site meet the criteria for a no purge alternative for quarterly groundwater monitoring. Therefore no purging of wells is completed at this site.

### **GROUNDWATER SAMPLING**

Groundwater in each well is sampled using a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

**Appendix B**  
**Field Documents**



MONITORING WELL DATA FORM

Site: Former Mobil 04H6J

Date: 07.21.09

Project Number: UP04H6J.1

Station Number: 04H6J

Site Location:  
1024 Main Street, Pleasanton, California

Samplers: *TBLDR*

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)	DEPTH TO PRODUCT (TOC)	APPARENT PRODUCT THICKNESS	AMOUNT OF PRODUCT REMOVED	Well Completion Depth (Feet)	DEPTH TO BOTTOM (TOC)	WELL CASING DIAMETER
MW1	43.59				55.00	49.90	4"
MW2	42.65				55.00	48.40	2"
MW3	09.29				35.00	33.10	2"
MW4	43.83				49.00	48.60	4"
MW5	32.71				34.00	34.61	4"
MW6	44.15				53.00	54.16	4"
MW7	07.81				30.00	24.40	2"
MW8	9.91				25.00	28.60	2"
MW10	43.85				55.00	54.60	4"
MW11	35.20				44.00	42.70	4"
MW12	45.08				55.00	54.64	4"
RW1	42.69				55.00	48.70	6"
RW2	38.89				54.00	52.10	6"
RW3	43.39				54.00	52.60	6"
RW4	44.10				51.00	49.10	6"
VMW1	19.04				35.00	30.30	4"
VMW2	15.40				35.00	27.75	4"
VMW3	09.89				32.00	31.98	4"
VMW4	07.82				35.00	12.67	4"



**GROUNDWATER PURGE AND SAMPLE**

Project Name: Former Mobil 04H6J

Well No: M/W1

Date: 07.21.09

Project No: UP04H6J.1

Personnel: T. BINDER

**GAUGING DATA**

Water Level Measuring Method: WLM

Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	<u>49.90</u>	<u>-</u>	<u>43.59</u>	<u>-</u>	<u>X</u> 1 0.04	2 0.16	<u>3</u> 6 0.64	1.44	<u>-</u>

**PURGING DATA**

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time						
Volume Purge (gal)						
Temperature (C)						
pH						
Spec. Cond. (umhos)						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

**NO PURGE / GRAB SAMPLE ONLY**

**SAMPLING DATA**

Time Sampled: 10:30

Approximate Depth to Water During Sampling: 43.59(feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or L)	Turbidity/ Color	Analysis Method
<u>M/W1</u>	<u>6</u>	<u>VOA</u>	<u>HCL</u>	<u>40 ml</u>		<u>TPH-g, BTEX, MTBE</u>

Total Purge Volume: - (gallons) Disposal: N/A

Weather Conditions: ok

Condition of Well Box and Casing at Time of Sampling: ok

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE EAR T3R1KOR

Comments:





## GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04H6J	Well No: MW2	Date: 07-21-09
Project No: UP04H6J.1	Personnel: <u>BINDER</u>	

### GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)			
	48.40	⊖	42.65	⊖	-	⊗	1	2	4	6	-	⊖
					0.04	0.16	0.64	1.44				

### PURGING DATA

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time						
Volume Purge (gal)						
Temperature (C)						
pH						
Spec. Cond (umhos)						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

NO PURGE / GRAB SAMPLE ONLY

### SAMPLING DATA

Time Sampled: 0840 Approximate Depth to Water During Sampling: 42.65 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW2	6	VOA	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: --- (gallons) Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging and Sampling: None

Comments:



**GROUNDWATER PURGE AND SAMPLE**

Project Name: Former Mobil 04H6J Well No: MW4 Date: 07.21.09  
 Project No: UP04H6J.1 Personnel: T. BINDER

**GAUGING DATA**

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)			
	4860	-	43.83	=	-	X	1	2	4	6	-	=
						0.04	0.16	0.64	1.44			

**PURGING DATA**

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time							
Volume Purge (gal)							
Temperature (C)							
pH							
Spec. Cond. (umhos)							
Turbidity/Color							
Odor (Y/N)							
Dewatered (Y/N)							

Comments/Observations:

**NO PURGE / GRAB SAMPLE ONLY**

**SAMPLING DATA**

Time Sampled: 1015 Approximate Depth to Water During Sampling: 43.83 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
	6	VOA	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: - (gallons) Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:



**GROUNDWATER PURGE AND SAMPLE**

Project Name: Former Mobil 04H6J

Well No: MW6

Date: 07-21-09

Project No: UP04H6J.1

Personnel: T. BINDER

**GAUGING DATA**

Water Level Measuring Method: WLM

Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)	
	54.16	=	44.15	=	X	1	2	4	6	=
					0.04	0.16	0.64	1.44		

**PURGING DATA**

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time							
Volume Purge (gal)							
Temperature (C)							
pH							
Spec Cond. (umhos)							
Turbidity/Color							
Odor (Y/N)							
Dewatered (Y/N)							

Comments/Observations:

**NO PURGE / GRAB SAMPLE ONLY**

**SAMPLING DATA**

Time Sampled: 0953

Approximate Depth to Water During Sampling: 44.15 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
	6	VOA	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: - (gallons)

Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:



## GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04H6J	Well No: M411	Date: 07-21-09
Project No: UP04H6J.1	Personnel: T. SANDER	

### GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)			
	42.70	-	35.20	=	-	X	1 0.04	2 0.16	4 0.64	6 1.44	-	=

### PURGING DATA

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time							
Volume Purge (gal)							
Temperature (C)							
pH							
Spec. Cond. (umhos)							
Turbidity/Color							
Odor (Y/N)							
Dewatered (Y/N)							

Comments/Observations:

NO PURGE / GRAB SAMPLE ONLY

### SAMPLING DATA

Time Sampled: 0800 Approximate Depth to Water During Sampling: 35.20 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
	6	VOA	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: - (gallons) Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:



## GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04H6J	Well No: RW1	Date: 07-21-09
Project No: UP04H6J.1	Personnel: <u>T. SINKER</u>	

### GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)			
	48.70	-	42.69	=	X	1	2	3	4	-	=	-
					0.04	0.16	0.64	1.44				

### PURGING DATA

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time						
Volume Purge (gal)						
Temperature (C)						
pH						
Spec Cond. (umhos)						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

NO PURGE / GRAB SAMPLE ONLY

### SAMPLING DATA

Time Sampled: 0220 Approximate Depth to Water During Sampling: 42.69 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
RW1	6	VOA	HCL	40 ml	/	TPH-g, BTEX, MTBE

Total Purge Volume: - (gallons) Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: None

Problems Encountered During Purging and Sampling: None

Comments:



**GROUNDWATER PURGE AND SAMPLE**

Project Name: Former Mobil 04H6J Well No: RW2 Date: 07.21.09  
 Project No: UP04H6J.1 Personnel: T. BINDER

**GAUGING DATA**

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)			
	52.10	-	38.89	=	-	X	1	2	4	6	-	=
						0.04	0.16	0.64	1.44			

**PURGING DATA**

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time	Volume Purge (gal)	Temperature (C)	pH	Spec. Cond. (umhos)	Turbidity/Color	Odor (Y/N)	Dewatered (Y/N)

Comments/Observations:  
**NO PURGE / GRAB SAMPLE ONLY**

**SAMPLING DATA**

Time Sampled: 0940 Approximate Depth to Water During Sampling: 38.89 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
	6	VOA	HCL	40 ml		TPH-g, BTEX, MTBE

Total Purge Volume: (gallons) Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:



## GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04H6J	Well No: RW3	Date: 07-21-09
Project No: UP04H6J.1	Personnel: <u>T. BINDER</u>	

### GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	52.60	- 43.39	=	-	⊗ 1 0.04	2 0.16	4 0.64	Ⓢ 6 1.44	-

### PURGING DATA

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time						
Volume Purge (gal)						
Temperature (C)						
pH						
Spec Cond (umhos)						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

NO PURGE / GRAB SAMPLE ONLY

### SAMPLING DATA

Time Sampled: 0930 Approximate Depth to Water During Sampling: 43.39 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
	6	VOA	HCL	40 ml	/	TPH-g, BTEX, MTBE

Total Purge Volume: - (gallons) Disposal: N/A

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:





## GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04H6J	Well No: RW4	Date: 07.21.09
Project No: UP04H6J.1	Personnel: TBIANDEP	

### GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
	49.10	- 44.10	-	X	1 0.04	2 0.16	4 0.64	6 1.44	-

### PURGING DATA

Purge Method: Non-purge, sample with bailer Purge Depth: Screen Purge Rate: (gpm)

Time						
Volume Purge (gal)						
Temperature (C)						
pH						
Spec Cond. (umhos)						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

NO PURGE / GRAB SAMPLE ONLY

### SAMPLING DATA

Time Sampled: 0900 Approximate Depth to Water During Sampling: 44.10 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
	6	VOA	HCL	40 ml	/	TPH-g, BTEX, MTBE

Total Purge Volume: - (gallons) Disposal: N/A

Weather Conditions: ok

Condition of Well Box and Casing at Time of Sampling: ok

Well Head Conditions Requiring Correction: None

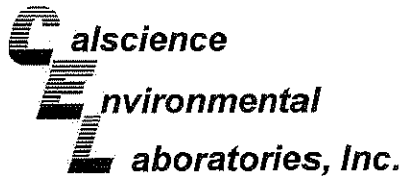
Problems Encountered During Purging and Sampling: None

Comments:



## **Appendix C**

# **Laboratory Analytical Reports and Chain-of-Custody Documentation**



July 31, 2009

Hamidou Barry  
ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Subject: **Calscience Work Order No.: 09-07-1855**  
Client Reference: **ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/23/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

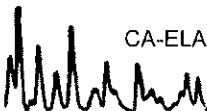
Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

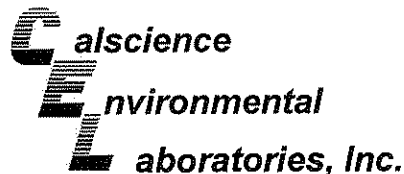
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Cecile deGuia".

Calscience Environmental  
Laboratories, Inc.  
Cecile deGuia  
Project Manager





## Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-07-1855-1-E	07/21/09 10:30	Aqueous	GC 25	07/28/09	07/28/09 12:54	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	109	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-07-1855-2-E	07/21/09 08:40	Aqueous	GC 25	07/28/09	07/28/09 12:21	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	620	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	129	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-07-1855-3-E	07/21/09 10:15	Aqueous	GC 25	07/28/09	07/28/09 11:48	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

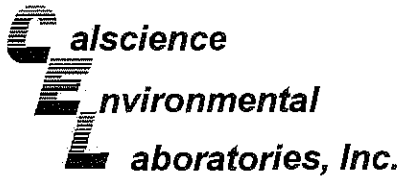
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	49	50	48	1	J	ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	107	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	09-07-1855-4-E	07/21/09 09:55	Aqueous	GC 25	07/28/09	07/28/09 11:14	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	110	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	09-07-1855-5-E	07/21/09 08:00	Aqueous	GC-25	07/28/09	07/28/09 10:41	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	110	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-1	09-07-1855-6-E	07/21/09 08:20	Aqueous	GC 25	07/28/09	07/28/09 10:07	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	99	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-2	09-07-1855-7-E	07/21/09 09:40	Aqueous	GC 25	07/28/09	07/28/09 13:33	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

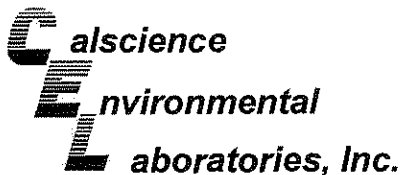
Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	106	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-3	09-07-1855-8-E	07/21/09 09:20	Aqueous	GC 25	07/28/09	07/28/09 14:07	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	109	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-4	09-07-1855-9-E	07/21/09 09:00	Aqueous	GC 25	07/28/09	07/28/09 14:40	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	107	38-134				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-436-3,580	N/A	Aqueous	GC 25	07/28/09	07/28/09 04:40	090728B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	107	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

## Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-1</b>	<b>09-07-1855-1-A</b>	<b>07/21/09 10:30</b>	<b>Aqueous</b>	<b>GC/MS Z</b>	<b>07/28/09</b>	<b>07/28/09 21:34</b>	<b>090728L01</b>

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
1,2-Dichloroethane-d4	105	80-128				Dibromofluoromethane	96	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	94	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-2</b>	<b>09-07-1855-2-A</b>	<b>07/21/09 08:40</b>	<b>Aqueous</b>	<b>GC/MS Z</b>	<b>07/28/09</b>	<b>07/29/09 01:23</b>	<b>090728L02</b>

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

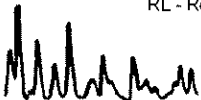
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	0.62	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	0.53	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	0.92	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	26	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
1,2-Dichloroethane-d4	105	80-128				Dibromofluoromethane	98	80-127			
Toluene-d8	102	80-120				1,4-Bromofluorobenzene	104	68-120			

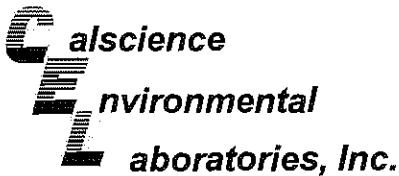
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-4</b>	<b>09-07-1855-3-A</b>	<b>07/21/09 10:15</b>	<b>Aqueous</b>	<b>GC/MS Z</b>	<b>07/28/09</b>	<b>07/29/09 03:17</b>	<b>090728L02</b>

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
1,2-Dichloroethane-d4	106	80-128				Dibromofluoromethane	100	80-127			
Toluene-d8	99	80-120				1,4-Bromofluorobenzene	94	68-120			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	09-07-1855-4-A	07/21/09 09:55	Aqueous	GC/MS Z	07/28/09	07/29/09 03:46	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	109	80-128				Dibromofluoromethane	97	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	90	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11	09-07-1855-5-A	07/21/09 08:00	Aqueous	GC/MS Z	07/28/09	07/29/09 04:15	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

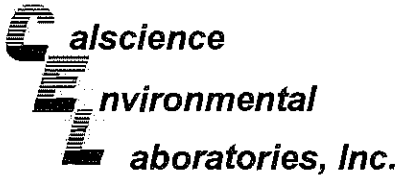
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	108	80-128				Dibromofluoromethane	96	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	89	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-1	09-07-1855-6-A	07/21/09 08:20	Aqueous	GC/MS Z	07/28/09	07/29/09 04:43	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	NO	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	106	80-128				Dibromofluoromethane	99	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	91	68-120			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-2	09-07-1855-7-A	07/21/09 09:40	Aqueous	GC/MS Z	07/28/09	07/29/09 05:12	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	114	80-128				Dibromofluoromethane	103	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	94	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-3	09-07-1855-8-A	07/21/09 09:20	Aqueous	GC/MS Z	07/28/09	07/29/09 05:40	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	106	80-128				Dibromofluoromethane	97	80-127			
Toluene-d8	99	80-120				1,4-Bromofluorobenzene	90	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RW-4	09-07-1855-9-A	07/21/09 09:00	Aqueous	GC/MS Z	07/28/09	07/29/09 06:09	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	110	80-128				Dibromofluoromethane	101	80-127			
Toluene-d8	99	80-120				1,4-Bromofluorobenzene	91	68-120			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-025-1,126	N/A	Aqueous	GC/MS Z	07/28/09	07/29/09 00:54	090728L02

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	109	80-128				Dibromofluoromethane	97	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	92	68-120			

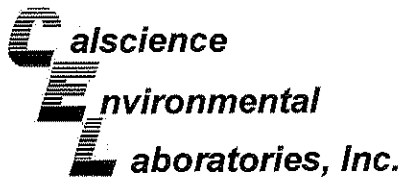
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-025-1,127	N/A	Aqueous	GC/MS Z	07/28/09	07/28/09 12:17	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1	
1,2-Dibromoethane	ND	0.50	0.12	1		Tert-Butyl Alcohol (TBA)	ND	10	2.1	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
Ethylbenzene	ND	0.50	0.079	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Toluene	ND	0.50	0.46	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Xylenes (total)	ND	0.50	0.32	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	103	80-128				Dibromofluoromethane	105	80-127			
Toluene-d8	100	80-120				1,4-Bromofluorobenzene	93	68-120			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

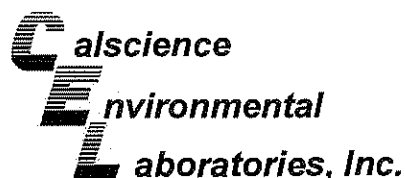
Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RW-1	Aqueous	GC 25	07/28/09	07/28/09	090728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	97	97	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

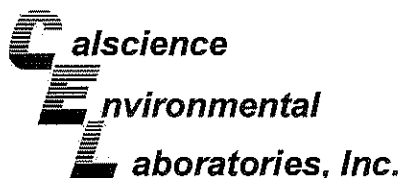
Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1657-8	Aqueous	GC/MS Z	07/28/09	07/28/09	090728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	104	76-124	0	0-20	
Carbon Tetrachloride	102	102	74-134	1	0-20	
Chlorobenzene	99	98	80-120	1	0-20	
1,2-Dibromoethane	102	99	80-120	3	0-20	
1,2-Dichlorobenzene	97	98	80-120	1	0-20	
1,1-Dichloroethene	98	96	73-127	2	0-20	
Ethylbenzene	89	89	78-126	0	0-20	
Toluene	102	102	80-120	0	0-20	
Trichloroethene	100	99	77-120	1	0-20	
Vinyl Chloride	91	90	72-126	1	0-20	
Methyl-t-Butyl Ether (MTBE)	103	119	67-121	11	0-49	
Tert-Butyl Alcohol (TBA)	84	76	36-162	10	0-30	
Diisopropyl Ether (DIPE)	102	100	60-138	2	0-45	
Ethyl-t-Butyl Ether (ETBE)	95	95	69-123	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	98	96	65-120	1	0-20	
Ethanol	62	93	30-180	39	0-72	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - Spike/Spike Duplicate



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

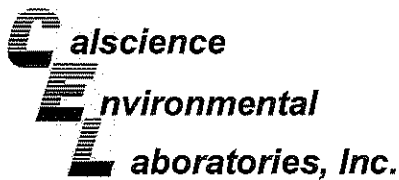
Date Received: 07/23/09  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B

Project ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2	Aqueous	GC/MS Z	07/28/09	07/29/09	090728S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	100	76-124	2	0-20	
Carbon Tetrachloride	103	104	74-134	0	0-20	
Chlorobenzene	100	98	80-120	1	0-20	
1,2-Dibromoethane	104	100	80-120	4	0-20	
1,2-Dichlorobenzene	99	100	80-120	1	0-20	
1,1-Dichloroethene	97	98	73-127	0	0-20	
Ethylbenzene	104	102	78-126	2	0-20	
Toluene	104	103	80-120	1	0-20	
Trichloroethene	99	98	77-120	1	0-20	
Vinyl Chloride	97	100	72-126	3	0-20	
Methyl-t-Butyl Ether (MTBE)	94	88	67-121	6	0-49	
Tert-Butyl Alcohol (TBA)	101	108	36-162	6	0-30	
Diisopropyl Ether (DIPE)	104	101	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	101	97	69-123	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	96	95	65-120	1	0-20	
Ethanol	126	131	30-180	4	0-72	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523-1850

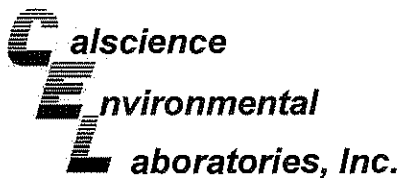
Date Received: N/A  
 Work Order No: 09-07-1855  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-3,580	Aqueous	GC 25	07/28/09	07/28/09	090728B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	100	98	78-120	2	0-10	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

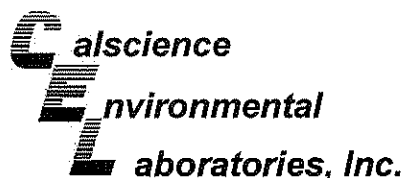
Date Received: N/A  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-025-1,127	Aqueous	GC/MS-Z	07/28/09	07/28/09	090728L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	98	80-120	73-127	1	0-20	
Carbon Tetrachloride	101	102	74-134	64-144	0	0-20	
Chlorobenzene	99	96	80-120	73-127	3	0-20	
1,2-Dibromoethane	96	96	79-121	72-128	0	0-20	
1,2-Dichlorobenzene	97	98	80-120	73-127	0	0-20	
1,1-Dichloroethene	97	94	78-126	70-134	3	0-28	
Ethylbenzene	104	101	80-120	73-127	3	0-20	
Toluene	100	99	80-120	73-127	1	0-20	
Trichloroethene	99	100	79-127	71-135	2	0-20	
Vinyl Chloride	99	92	72-132	62-142	7	0-20	
Methyl-t-Butyl Ether (MTBE)	98	98	69-123	60-132	0	0-20	
Tert-Butyl Alcohol (TBA)	104	100	63-123	53-133	5	0-20	
Diisopropyl Ether (DIPE)	95	96	59-137	46-150	0	0-37	
Ethyl-t-Butyl Ether (ETBE)	91	93	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	91	92	70-120	62-128	1	0-20	
Ethanol	128	122	28-160	6-182	5	0-57	

Total number of LCS compounds : 16  
Total number of ME compounds : 0  
Total number of ME compounds allowed : 1  
LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, CA 94523-1850

Date Received: N/A  
Work Order No: 09-07-1855  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: ExxonMobil 04H6J / UP04H6J.1 / 1024 Main Street, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-025-1,126	Aqueous	GC/MS Z	07/28/09	07/28/09	090728L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	103	100	80-120	73-127	3	0-20	
Carbon Tetrachloride	106	101	74-134	64-144	5	0-20	
Chlorobenzene	100	101	80-120	73-127	1	0-20	
1,2-Dibromoethane	99	101	79-121	72-128	3	0-20	
1,2-Dichlorobenzene	102	104	80-120	73-127	2	0-20	
1,1-Dichloroethene	101	96	78-126	70-134	4	0-28	
Ethylbenzene	104	102	80-120	73-127	2	0-20	
Toluene	103	101	80-120	73-127	2	0-20	
Trichloroethene	118	109	79-127	71-135	9	0-20	
Vinyl Chloride	100	101	72-132	62-142	2	0-20	
Methyl-t-Butyl Ether (MTBE)	82	81	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	99	106	63-123	53-133	7	0-20	
Diisopropyl Ether (DIPE)	70	101	59-137	46-150	36	0-37	
Ethyl-t-Butyl Ether (ETBE)	101	97	69-123	60-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	95	95	70-120	62-128	0	0-20	
Ethanol	144	128	28-160	6-182	12	0-57	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

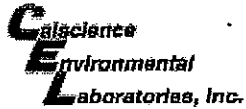
RPD - Relative Percent Difference, CL - Control Limit

Work Order Number: 09-07-1855

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.







7440 LINCOLN WAY  
 GARDEN GROVE, CA 92841-1432  
 TEL: (714) 895-5494 . FAX: (714) 894-7501

**CHAIN OF CUSTODY RECORD**

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: <b>ExxonMobil c/o ETIC Engineering</b>		CLIENT PROJECT NAME / NUMBER: <b>FORMER MOBIL STATION 04H6J / UP04H6J.1</b>		P.O. NO.: <b>4510815941</b>	
ADDRESS: <b>2285 Morello Avenue</b>		PROJECT CONTACT: <b>Hamidou Barry</b>		LAB USE ONLY <b>071855</b>	
CITY: <b>Pleasant Hill, CA 94523</b>		SAMPLER(S): (SIGNATURE) <i>[Signature]</i>		COOLER RECEIPT TEMP = _____ °C	
TEL: <b>925-602-4710 Ext. 34</b>	FAX: <b>925-602-4720</b>	E-MAIL: <b>eticlabreports@eticeng.com</b>		COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

TURNAROUND TIME  
 SAME DAY  24 HR  48HR  72 HR  5 DAYS  10 DAYS

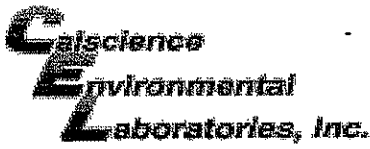
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 RWQCB REPORTING  COELT REPORTING

SPECIAL INSTRUCTIONS  
**EDF file required, GLOBAL ID# T0600100909**

LAB USE ONLY		SAMPLING		Matrix	No. of Containers	REQUESTED ANALYSIS															
	SAMPLE ID / DESCRIPTION	DATE	TIME			TPH-GIBTEX BY 8015B/8260B	7 OXYGENATES BY 8260B														
1	MW-1	07.21.09	1030	Water	6	X	X														
2	MW-2		0840	Water	6	X	X														
3	MW-4		1015	Water	6	X	X														
4	MW-6		0955	Water	6	X	X														
5	MW-11		0800	Water	6	X	X														
6	RW-1		0820	Water	6	X	X														
7	RW-2		0940	Water	6	X	X														
8	RW-3		0920	Water	6	X	X														
9	RW-4		0900	Water	6	X	X														

Relinquished by: (Signature) <i>[Signature]</i>	DATE <b>07.21.09</b>	TIME <b>1140</b>	Received by: (Signature) <b>Tom O'Malley CEL</b>	Date: <b>7/22/09</b>	Time: <b>1225</b>
Relinquished by: (Signature) <i>[Signature]</i>	DATE <b>07.22.09</b>	TIME <b>1730</b>	Received by: (Signature) <i>[Signature]</i>	Date: <b>7/23/09</b>	Time: <b>1000</b>

Page 16 of 17



WORK ORDER #: 09-07-01 8 5 5

# SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC

DATE: 07/23/09

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.4 °C - 0.2°C (CF) = 2.2 °C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter  Metals Only  PCBs Only Initial: JP

**CUSTODY SEALS INTACT:**

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A Initial: JP

Sample  \_\_\_\_\_  No (Not Intact)  Not Present Initial: SO

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:**

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve  EnCores®  TerraCores®  \_\_\_\_\_

**Water:**  VOA  VOAh  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  500PB  500PBna

250PB  250PBn  125PB  125PBzanna  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Air:**  Tedlar®  Summa®  \_\_\_\_\_ **Other:**  \_\_\_\_\_ **Checked/Labeled by:** SO

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** DL

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> zanna: ZnAc<sub>2</sub>+NaOH f: Field-filtered **Scanned by:** SO

**Appendix J**

ETIC's Well Survey Report  
Dated January 29, 2010

**ExxonMobil Environmental Services Company**  
4096 Piedmont Avenue #194  
Oakland, California 94611  
510 547 8196 Telephone  
510 547 8706 Facsimile

**Jennifer C. Sedlachek**  
Project Manager

**ExxonMobil**

January 29, 2010

Mr. Jerry T. Wickham  
Alameda County Health Care Services Agency  
1311 Harbor Bay Parkway  
Alameda, California 94502-6577

Subject: Detailed Well Survey Report  
Former Mobil Station 04H6J, 1024 Main Street, Pleasanton, California  
ACHCSA File No. RO-2427

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Detailed Well Survey Report* for the above-referenced site. The document, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, is being submitted in response to a letter from the Alameda County Health Care Services Agency dated November 20, 2009.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,



Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Detailed Well Survey Report

- c: w/ attachment:  
Mr. Abbas Masjedi - Pleasanton Utility Planning  
Mr. Matthew Katen - Alameda County Flood Control and Water Conservation District, Zone 7 Water Agency  
Mr. Paul L. Hultne - Pleasanton on Main, LLC  
Mount Diablo National Bank
- c: w/o attachment:  
Mr. Bryan Campbell - ETIC Engineering, Inc.



---

29 January 2010

Ms. Jennifer C. Sedlachek  
ExxonMobil Environmental Services Company  
4096 Piedmont Avenue #194  
Oakland, California 94611

Subject: Detailed Well Survey Report  
Former Mobil Station 04H6J  
1024 Main Street, Pleasanton, California

Dear Ms. Sedlachek:

ETIC Engineering, Inc. (ETIC) has prepared this Detailed Well Survey Report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for former Mobil Station 04H6J. This report was prepared as part of the closure preparation process and in response to a letter from the Alameda County Health Care Services Agency dated 20 November 2009. A copy of the correspondence is provided in Attachment A.

This report summarizes a search conducted with information from various agencies for water supply wells within a 2,000-foot radius of the site.

### **Background**

Former Mobil Station 04H6J is located at 1024 Main Street, Pleasanton, California, on the northeast corner of Main Street and Stanley Boulevard (Figures 1 through 3). The site was used as a gasoline service station until 1989 and is currently a vacant lot. The three underground fuel storage tanks (USTs) and an underground used-oil tank were removed in 1989 (Figure 3).

Residential properties are located to the east across a parking lot; railroad tracks are located to the north and single family homes are located across the railroad tracks to the north. Commercial properties are located across Main Street to the west; across Stanley Boulevard to the south is a former Union 76 service station.

The existing groundwater monitoring wells (MW1 through MW8 and MW10 through MW12) and extraction wells (RW1 through RW4 and VMW1 through VMW4) are screened in two water-bearing zones between 5 and 55 feet below ground surface (bgs). The depths to water in the wells vary depending on the screened intervals. In the upper clay/silt unit, the depth to water can vary (a perched zone), and in the lower sand/gravel unit the depth to water is approximately 37 to 44 feet bgs. The groundwater gradient in the sand/gravel unit is generally to the north.

## Well Search

A search was conducted for public and private wells within a 2,000-foot radius of the site. Wells identified as monitoring wells were not included in this search. The results of this search are based on information from the Zone 7 Water Agency (Zone 7), California Department of Water Resources (DWR), and Environmental Data Resources, Inc. (EDR) records. As part of the well search performed for former Mobil Station 04H6J, an offsite reconnaissance was conducted on 3 December 2009 to ascertain the presence of water supply wells identified in the Zone 7, DWR, and EDR records. The locations of the identified wells are shown on Figure 2. Table 1 summarizes the wells identified within the search radius. A compilation of detailed information for the wells located within the search radius is provided below:

- Three municipal wells owned by the City of Pleasanton were identified in the information from Zone 7: 3S/1E-16L1 (16L1), 3S/1E-16L5 (16L5), and 3S/1E-16L7 (16L7). The locations of these wells are shown on Figure 2. The well logs and construction details from the DWR are provided in Attachment B. Given the relative distance of the wells to the site and the placement of screened intervals, numerous clay layers shown in the well logs (Attachment B) these municipal wells are not expected to be affected by remaining hydrocarbons at the site.
- Four private water wells were identified in the information from Zone 7: 3S/1E-21B2 (21B2), 3S/1E-21B3 (21B3), 3S/1E-21C1 (21C1), and 3S/1E-21C3 (21C3). The locations of these wells are shown on Figure 2. Three of the four wells are reported as abandoned (Table 1). No other information was available for these wells from any other source. None of the wells are located downgradient of the site and they are not expected to be affected by the remaining hydrocarbons at the site.
- Five abandoned supply wells were identified in the information from Zone 7: 3S/1E-16M2 (16M2), 3S/1E-16L10 (16L10), 3S/1E-16L11 (16L11), and 3S/1E-16M1 (16M1) through 3S/1E-16M3 (16M3). The locations of these wells are shown on Figure 2. No other information regarding these wells was available from Zone 7 or any other source. Given the relative distance of the wells to the site these wells are not expected to be affected by the remaining hydrocarbons at the site.

## Conclusion

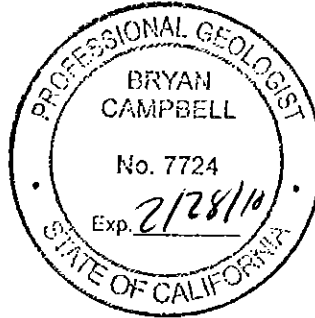
Based on the information presented in this well search, the results of the soil vapor sampling, and current site conditions, a review for case closure is requested.

If you have any questions, please contact me at (925) 602-4710 ext. 24.

Sincerely,



Bryan Campbell, P.G. #7724  
Senior Geologist



Attachments:

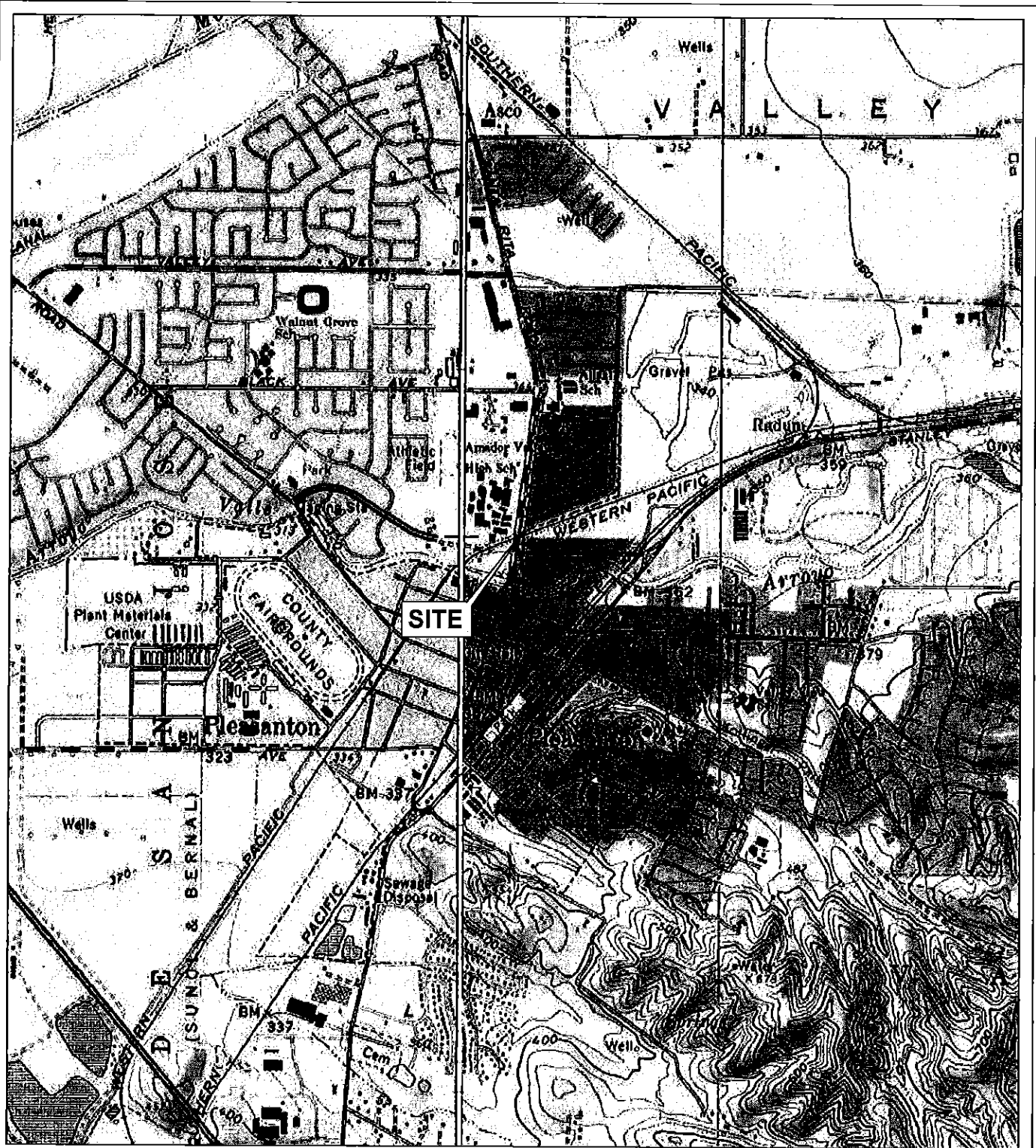
Figure 1: Site Location and Topographic Map  
Figure 2: 2,000-Foot Radius Well Search Map  
Figure 3: Site Map

Table 1: Water Supply Wells Located within 2,000-foot Radius

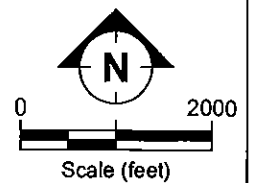
Attachments A: Regulatory Correspondence  
B: Wells Logs and Completion Records

## Figures





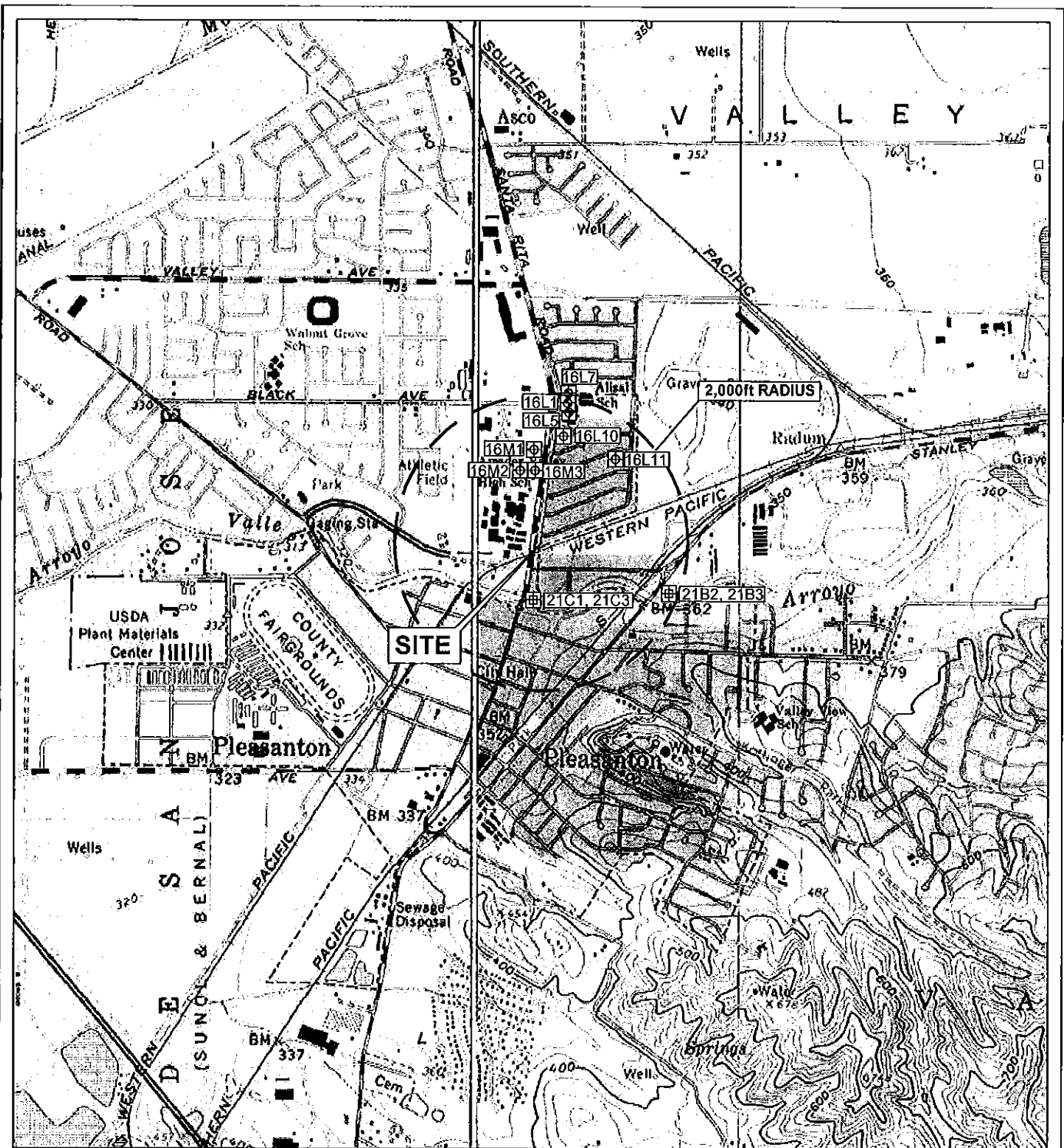
SOURCE: USGS Topographic Map



SITE LOCATION AND TOPOGRAPHIC MAP  
 FORMER MOBIL STATION 04H6J  
 1024 MAIN STREET  
 PLEASANTON, CALIFORNIA

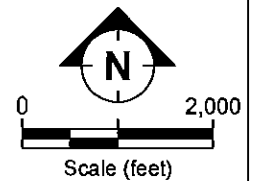
FIGURE:

1



**LEGEND:**

- 3 ACTIVE PUBLIC WATER SUPPLY WELL
- 0 INACTIVE PUBLIC WATER SUPPLY WELL
- 5 UNKNOWN OR OTHER PUBLIC WATER SUPPLY WELL
- 0 ACTIVE PRIVATE WELL
- 0 INACTIVE PRIVATE WELL
- 4 UNKNOWN OR OTHER PRIVATE WELL



(Map Source: USGS Topographic Map)

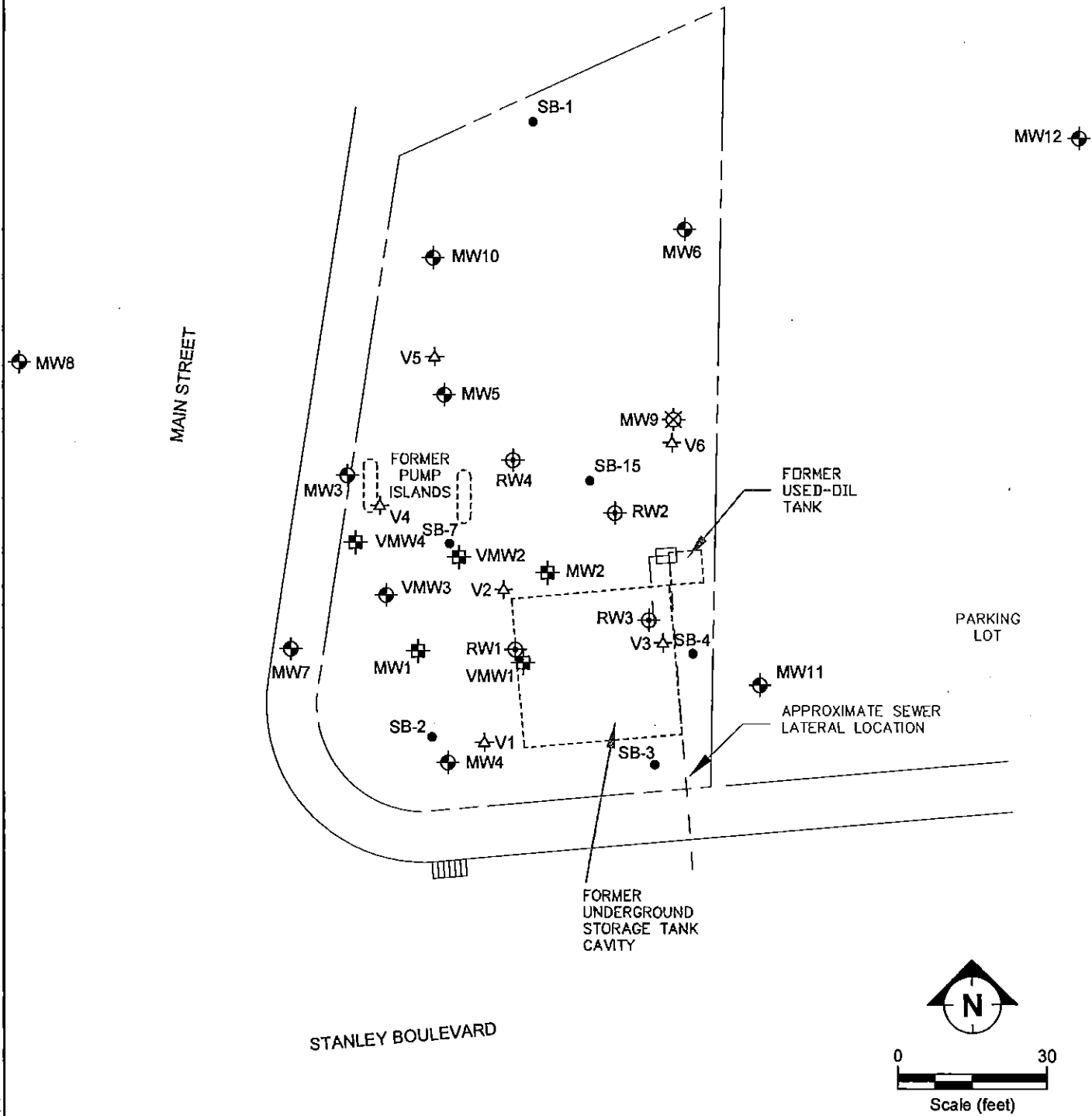
2,000-FOOT RADIUS WELL SEARCH MAP  
 FORMER MOBIL STATION 04H6J  
 1024 MAIN STREET  
 PLEASANTON, CALIFORNIA

FIGURE:

**2**

**LEGEND**

- ◆ Groundwater monitoring well
- ⊕ Recovery well
- ⊗ Destroyed monitoring well
- ⊞ Soil vapor extraction well
- △ Soil vapor monitoring well



FILENAME: site0409.DWG 4/1/09



SITE MAP  
 FORMER MOBIL STATION 04H6J  
 1024 MAIN STREET  
 PLEASANTON, CALIFORNIA

FIGURE:

**3**

## **Tables**

TABLE 1 WATER SUPPLY WELLS LOCATED WITHIN 2,000-FOOT RADIUS  
FORMER MOBIL STATION 04H6J, 1024 MAIN STREET PLEASANTON, CALIFORNIA

Well No. on Figure	Well Location (Latitude/Longitude)	State Well No.	Well Owner	Well Depth (feet bgs)	Well Casing Diameter (inches)	Screen Interval (feet bgs)	Year Installed	Well Use	Well Status	Source	Comments
16L5	Santa Rita Road and Black (-121.871977/37.672196)	3S/1E-16L5	City of Pleasanton	650	12, 18, 30	228-265 278-288 293-317 342-348 370-388 427-472 495-521 535-550 566-577 588-595 602-630 640-650	1961	Municipal	Active	Zone 7, DWR, EDR	Verified in the field.
16L1	Santa Rita Road and Black (-121.871994/37.672071)	3S/1E-16L1	City of Pleasanton	152	12	56-136	1945	Municipal	Active	Zone 7, DWR	Verified in the field.
16L7	Santa Rita Road and Black (-121.872327/37.672745)	3S/1E-16L7	City of Pleasanton	647	14, 18	165-365 371-647	1965	Municipal	Active	Zone 7, DWR, EDR	Verified in the field.
21C1	Vervais Avenue (-121.873627/37.665175)	3S/1E-21C1	--	--	--	--	--	Domestic	Active	Zone 7	Not found during 12/3/2009 offsite visit.
21C3	Vervais Avenue (--/--)	3S/1E-21C3	--	--	--	--	--	Domestic	Abandoned	Zone 7	Not found during 12/3/2009 offsite visit.
21B2	3988 First Street (-121.866886/37.665374)	3S/1E-21B2	--	--	--	--	--	Domestic	Abandoned	Zone 7	Not found during 12/3/2009 offsite visit.
21B3	3988 First Street (-121.866833/37.665345)	3S/1E-21B3	--	--	--	--	--	Domestic	Abandoned	Zone 7	Not found during 12/3/2009 offsite visit.
16L10	--	3S/1E-16L10	--	--	--	--	--	Supply	Abandoned	Zone 7	Could not be located.
16L11	--	3S/1E-16L11	--	--	--	--	--	Supply	Abandoned	Zone 7	Could not be located.
16M1	--	3S/1E-16M1	--	--	--	--	--	Supply	Abandoned	Zone 7	Could not be located.
16M2	--	3S/1E-16M2	--	--	--	--	--	Supply	Abandoned	Zone 7	Could not be located.
16M3	--	3S/1E-16M3	--	--	--	--	--	Supply	Abandoned	Zone 7	Could not be located.

Notes:

DWR Department of Water Resources.

EDR Environmental Data Resources, Inc.

Zone 7 Zone 7 Water Agency.

feet bgs Feet below ground surface.

-- Not reported, not available, could not be determined.

**Attachment A**

**Regulatory Correspondence**



4 H6J

RECEIVED

NOV 25 2009

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

**ETIC ENGINEERING**

November 20, 2009

Ms. Jennifer Sedlachek  
Exxon Mobil  
4096 Piedmont, #194  
Oakland, CA 94611

Barton and Bonnie Yates  
Route 4, Box 320  
Bonne Terre, MO 63628

Mr. Jack Hounslow  
Mount Diablo National Bank  
156 Diablo Road  
Danville, CA 94526

Mr. Paul L. Hulme  
Pleasanton on Main, LLC  
c/o Alain Pinel  
12772 Saratoga Sunnyvale Road, Suite 1000  
Saratoga, CA 95070

Subject: Fuel Leak Case No. RO0002427 and Geotracker Global ID T0600100909, Mobil #4H6J, 1024 Main Street, Pleasanton, CA 94566

Dear Ms. Sedlachek, Mr. and Ms. Yates, Mr. Hounslow, and Mr. Hulme:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the most recently submitted document entitled, "*Soil Vapor Sampling Report*," dated September 25, 2009 (Report). The Report, which was prepared on your behalf by ETIC Engineering, Inc, presents the results of soil vapor sampling conducted in July 2009. Based on the results of the soil vapor sampling and current conditions, the Report requests that the site be reviewed for case closure.

We have initiated the review for case closure and find one item that is required for closure review missing from the case file. We were not able to find a recent detailed well survey. Although we note that Well Completion Report Release requests for the site were submitted for ACEH approval in 2005 and 2006, the results of any well surveys are not in our case files. Therefore, we request that you submit a detailed well survey for the site that meets the requirements described in technical comment 1 below. Groundwater monitoring may be suspended at this time pending the outcome of closure review. We request that you address the technical comment below, perform the proposed work, and send us the reports described below.

**TECHNICAL COMMENT**

1. **Detailed Well Survey.** In order to identify potential receptors for the fuel hydrocarbon plume from your site, we request that you locate all water supply wells within a radius of 2,000 feet of the subject site. We recommend that you obtain well information from both Zone 7 Water Agency and the State of California Department of Water Resources, at a minimum. Submittal of maps showing the location of all wells identified in your study, and the use of tables to report the data collected as part of your survey are required. Please provide a table that includes the well designation, location, total depth, diameter, screen interval, date of well installation, current status, historic use, and owner of the wells. In addition, please provide well logs and completion records for wells downgradient from the site that are potential receptors. Please present the results in the Detailed Well Survey Report requested below.

appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### **UNDERGROUND STORAGE TANK CLEANUP FUND**

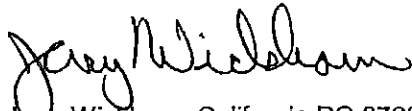
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### **AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org).

Sincerely,



Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway  
Livermore, CA 94551

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street,  
Pleasanton, CA 94566

Bryan Campbell, ETIC Engineering, Inc., 2285 Morello Avenue, Pleasant Hill, CA 94523

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
Geotracker, File



### TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **January 29, 2010** – Detailed Well Survey Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic\\_reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting)).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	ISSUE DATE: July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

#### REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:  
RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

#### Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

#### Submission Instructions

##### 1) Obtain User Name and Password:

- a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
  - i) Send an e-mail to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)
  - Or
  - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
- b) In the subject line of your request, be sure to include "ftp **PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker)** you will be posting for.

##### 2) Upload Files to the ftp Site

- a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
  - (i) Note: Netscape and Firefox browsers will not open the FTP site.
- b) Click on File, then on Login As.
- c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
- d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
- e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

##### 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs

- a) Send email to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org) notify us that you have placed a report on our ftp site.
- b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., [firstname.lastname@acgov.org](mailto:firstname.lastname@acgov.org))
- c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
- d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

## **Attachment B**

### **Well Logs and Completion Records**

**3S/1E-16L1**

**3S/1E-16L5**

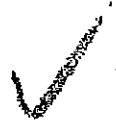
**3S/1E-16L7**

35/1E-16 LI ✓

01-1652

OH

March, 1945



LOG OF WELL FOR SAN FRANCISCO WATER DEPARTMENT  
Pleasanton, California

DRILLER: Adolph Hummel

195  
West...

		<u>THICKNESS</u>		
0	2	2	Ft.	Soil
2	54	52		Yellow sandy clay
54	61	7		Gravel and sand
61	63	2		Yellow clay
63	84	21		Gravel, boulders and sand
84	91	7		Yellow sandy clay
91	135	44		Gravel and sand
135	151	16		Yellow clay

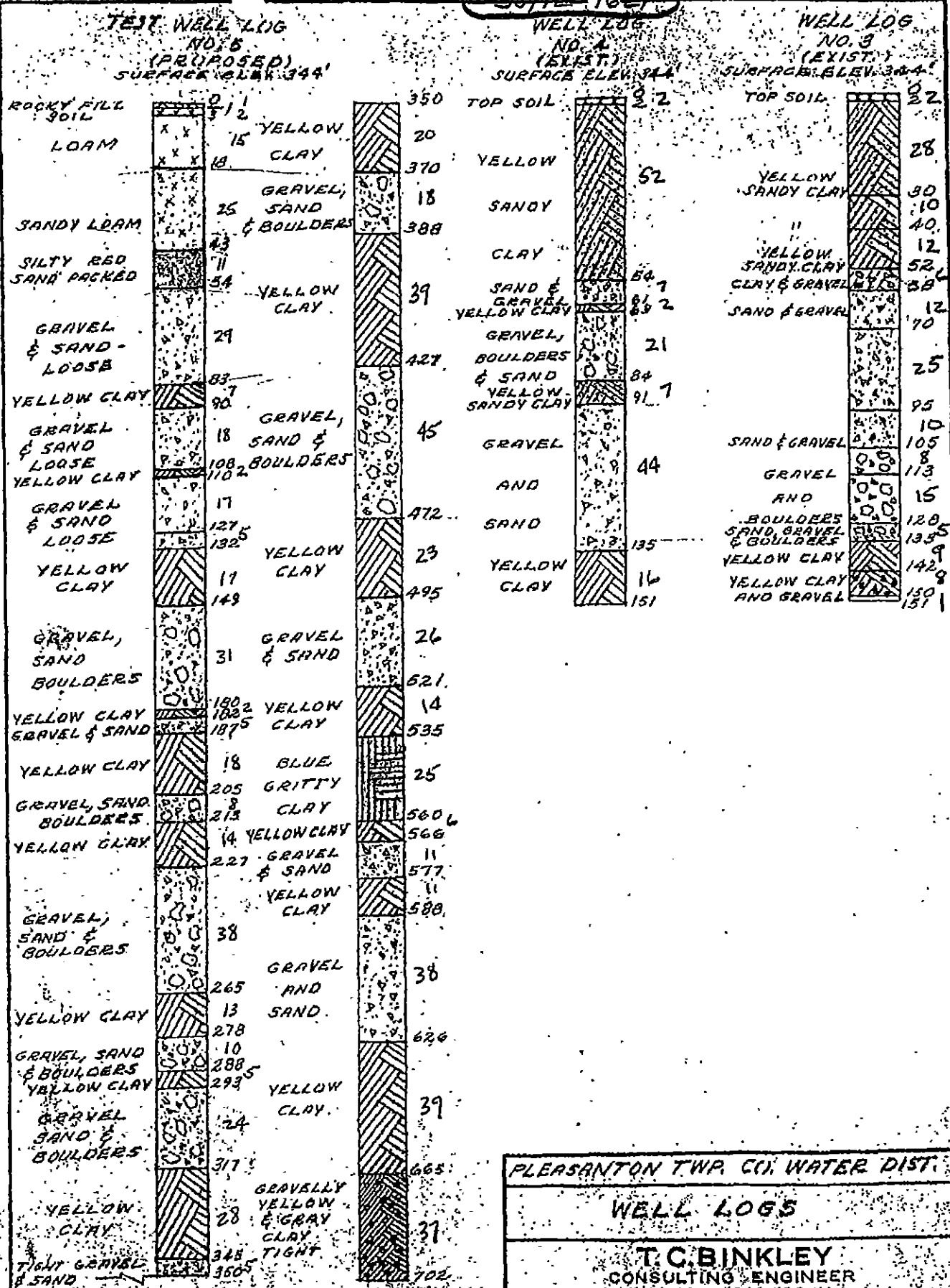
CONFIDENTIAL

151 Ft. Total finished well  
 152 Ft. 12" Double 12 Gauge Casing  
 Water Level 22 Ft.  
 Perforated 56 to 136 Ft. (80 Ft.)

~~25/15-164~~

25/15-164

~~25/15-164~~



PLEASANTON TWP. CO. WATER DIST.

WELL LOGS

T. C. BINKLEY  
CONSULTING ENGINEER  
PALO ALTO, CALIFORNIA

DR.	TR.	CH.	REC.	SCALE	DATE
T.C.B.	WR.			1" = 40'	12/28/01

APPROVED: T.C.B. DWG. NO. C201-2

MJH

ORIGINAL  
File Original, Duplicate and Triplicate with the  
REGIONAL WATER POLLUTION  
CONTROL BOARD No. 2  
(insert appropriate number)

# WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

Do Not Fill In  
No. 40514

State Well No. \_\_\_\_\_  
Other Well No. \_\_\_\_\_

### (1) OWNER:

Name Pleasanton Township County Water District  
Address P. O. Box 67  
Pleasanton, California

### (2) LOCATION OF WELL:

County Alameda Owner's number, if any—  
R. F. D. or Street No. Approx. 160' N.E. of Nevis St.; 25'  
SW of Black Avenue; 100' East of Santa Rita  
Road - Pleasanton

### (3) TYPE OF WORK (check):

New well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 11.

### (4) PROPOSED USE (check):

Domestic  Industrial  Municipal  Rotary   
Irrigation  Test Well  Other  Cable   
Dug Well

### (5) EQUIPMENT:

### (6) CASING INSTALLED:

SINGLE <input checked="" type="checkbox"/> DOUBLE <input type="checkbox"/>		30		Gage of Well	If gravel packed		
From	To	ft.	Diam.		Diameter of Bore	from	to
0	135	ft.	18"	5/16"	36	0	135
135	650	ft.	12"	1/4"	28 1/2	135	650
Type and size of shoe or well ring				Size of gravel: 1/4" x 1/8"			
Describe joint: welded seams - welded joints							

### (7) PERFORATIONS:

Type of perforator used		Factory - Louvre type		Size of perforations	In. length, by	In.	Rows per ft.
From	To	ft.	ft.				
149	180	ft.	45 per lin. foot	2 1/2	1/8		
201	212	ft.	45 per lin. foot				
228	265	ft.	45 per lin. foot				
278	288	ft.	45 per lin. foot				
293	317	ft.	45 per lin. foot				

See over for balance

### (8) CONSTRUCTION:

Was a surface sanitary seal provided?  Yes  No To what depth \_\_\_\_\_ ft.  
Were any strata sealed against pollution?  Yes  No If yes, note depth of strata  
From 0 ft. to 135 ft.  
Method of Sealing 36 to 30" cemented to 135'

### (9) WATER LEVELS:

Depth at which water was first found \_\_\_\_\_ ft.  
Standing level before perforating \_\_\_\_\_ ft.  
Standing level after perforating \_\_\_\_\_ ft.

### (10) WELL TESTS:

Was a pump test made?  Yes  No If yes, by whom? C & N Pump & Well  
Yield: 2820 gal./min. with 22' ft. draw down after 100 hrs.  
Temperature of water \_\_\_\_\_ Was a chemical analysis made?  Yes  No  
Was electric log made of well?  Yes  No

### (11) WELL LOG:

Total depth	685	ft.	Depth of completed well	650	ft.
Formations	Describe by color, character, size of material, and structure.				
0	ft. to	1	ft.	Fill - rocky	
1	"	3	"	Soil	
3	"	18	"	Loam	
18	"	43	"	Sandy loam	
43	"	54	"	Silty red sand	
54	"	83	"	Gravel and sand - loose	
83	"	90	"	Yellow clay	
90	"	108	"	Gravel & sand	
108	"	110	"	Yellow clay	
110	"	132	"	Gravel and sand	
132	"	149	"	Yellow clay	
149	"	180	"	Gravel-sand-boulders	
180	"	182	"	Yellow clay	
182	"	201	"	Yellow clay	
201	"	212	"	Gravel-sand-boulders	
212	"	220	"	Yellow clay	
220	"	228	"	Blue clay & rotten logs	
228	"	265	"	Gravel-sand-boulders	
265	"	278	"	Yellow clay	
278	"	288	"	Gravel-sand-boulders	
288	"	293	"	Yellow clay	
293	"	317	"	Gravel-sand-boulders	
317	"	342	"	Yellow clay	
342	"	348	"	Gravel-boulders	
348	"	370	"	Yellow clay	
370	"	388	"	Gravel-sand-boulders	
388	"	427	"	Yellow clay	
427	"	472	"	Gravel-sand-boulders	
472	"	495	"	Yellow gravelly clay	
495	"	521	"	Gravel-sand	
521	"	535	"	Yellow clay	
535	"	560	"	Blue clay - gritty	
560	"	566	"	Yellow clay	
566	"	577	"	Gravel-sand	
577	"	588	"	Yellow clay	
588	"	595	"	Gravel-sand	
595	"	602	"	Yellow gravelly clay	
602	"	630	"	Gravel-sand	
630	"	652	"	Yellow gravelly clay	
652	"	685	"	Tight gravelly yellow and blue clay	

FOR OFFICIAL USE ONLY

Work started 2-3 19 62. Completed 4-14 19 62

### WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME C & N Pump and Well Co.  
(Person, Firm, or Corporation) (Typed or printed)  
Address 1901 Washington Street  
Santa Clara, California

[Signed] \_\_\_\_\_  
Well Driller  
License No. 68648 Dated July 1, 19 61

DUPLICATE  
File Original, Duplicate and Triplicate with the  
REGIONAL WATER POLLUTION  
CONTROL BOARD No. 2  
(Use appropriate number)

# WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

Do Not Fill In

No. 40514  
State Well No. 3571E-1615  
Other Well No. ✓

**(1) OWNER:**

Name Pleasanton Township County Water District  
Address P. O. Box 67  
Pleasanton, California

**(2) LOCATION OF WELL:**

PLEASANTON WELL  
NO. 5  
County Alameda Owner's number, if any--  
R. F. D. or Street No. Approx. 160' N.E. of Navia St., 25'  
SW of Black Avenue; 100' East of Santa Rita  
Road - Pleasanton  
Between City Well No. 4 (on the north) &  
City Well No. 3 (on the south) both 151' Deep.

**(3) TYPE OF WORK (check):**

New well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 11.

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal  Irrigation  Test Well  Other   
Rotary Cable Dug Well

**(6) CASING INSTALLED:**

SINGLE <input checked="" type="checkbox"/> DOUBLE <input type="checkbox"/>		30		Gage of Well	If gravel packed		
From	To	ft.	ft.		Diameter of Bore	from	to
0	135	18	5/16	36	0	135	
0	225	12	1/2	28 1/2	135	650	
225	650						

Type and size of shoe or well ring \_\_\_\_\_  
Describe joint Welded seams - welded joints  
Size of gravel: 1/8

**(7) PERFORATIONS:**

Size of perforations	Factory	Leuvre type	in. length, by	in.
From 149	22	22	1/8	
180	45	per lin. foot		
201	45	per lin. foot		
228	45	per lin. foot		
278	45	per lin. foot		
293	45	per lin. foot		

**(8) CONSTRUCTION:**

Was a surface sanitary seal provided?  Yes  No To what depth \_\_\_\_\_ ft.  
Were any strata sealed against pollution?  Yes  No If yes, note depth of strata \_\_\_\_\_  
From 0 ft. to 135 ft.  
Method of Sealing 36 to 300 cemented to 135'

**(9) WATER LEVELS:**

Depth at which water was first found Static = 100 ft.  
Standing level before perforating \_\_\_\_\_ ft.  
Standing level after perforating \_\_\_\_\_ ft.

**(10) WELL TESTS:**

Was a pump test made?  Yes  No If yes, by whom? C & N Pump & Well  
Yield 2820 gal./min. with \_\_\_\_\_ ft. draw down after \_\_\_\_\_ hrs.  
Temperature of water \_\_\_\_\_  
Was a chemical analysis made?  Yes  No S.P.C. Co. 178

**(11) WELL LOG:**

Total depth	ft.	Depth of completed well	ft.
0	1	650	9
1	3		
3	18		
18	43		
43	54		
54	83		
83	90		
90	108		1M 600
108	110		
110	132		10 30
132	149		
149	180		10 30
180	182		
182	201		
201	212		15 30
212	220		
220	228		
228	265		1 1/2 30
265	278		
278	288		1 30
288	293		
293	317		1 30
317	342		
342	348		1 30
348	370		
370	388		1 30
388	427		
427	472		1 30
472	495		1 30
495	521		1 30
521	535		
535	560		
560	566		
566	577		1 30
577	588		
588	595		1 30
595	602		1 30
602	630		1 30
630	652		1 30
652	685		1 30

Work started 2-3-62 Completed 4-4-62

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME C & N Pump & Well Co.  
Address 1901 Washington Street  
Santa Clara, California  
[Signed] \_\_\_\_\_  
Well Driller

License No. 68648 Dated July 1, 1961  
DWDR FORM No. 246 (REV. 3-58)

NO. 40514

REGIONAL WATER POLLUTION CONTROL BOARD  
SACRAMENTO

in 12"

Additional Penetration: 31 1/2  
 348-348... 22 inches per linear foot  
 370-380... 21  
 457-472... 21  
 493-521... 21  
 593-590... 21  
 593-577... 21  
 583-574... 21  
 602-590... 21  
 640-620... 21

CONFIDENTIAL

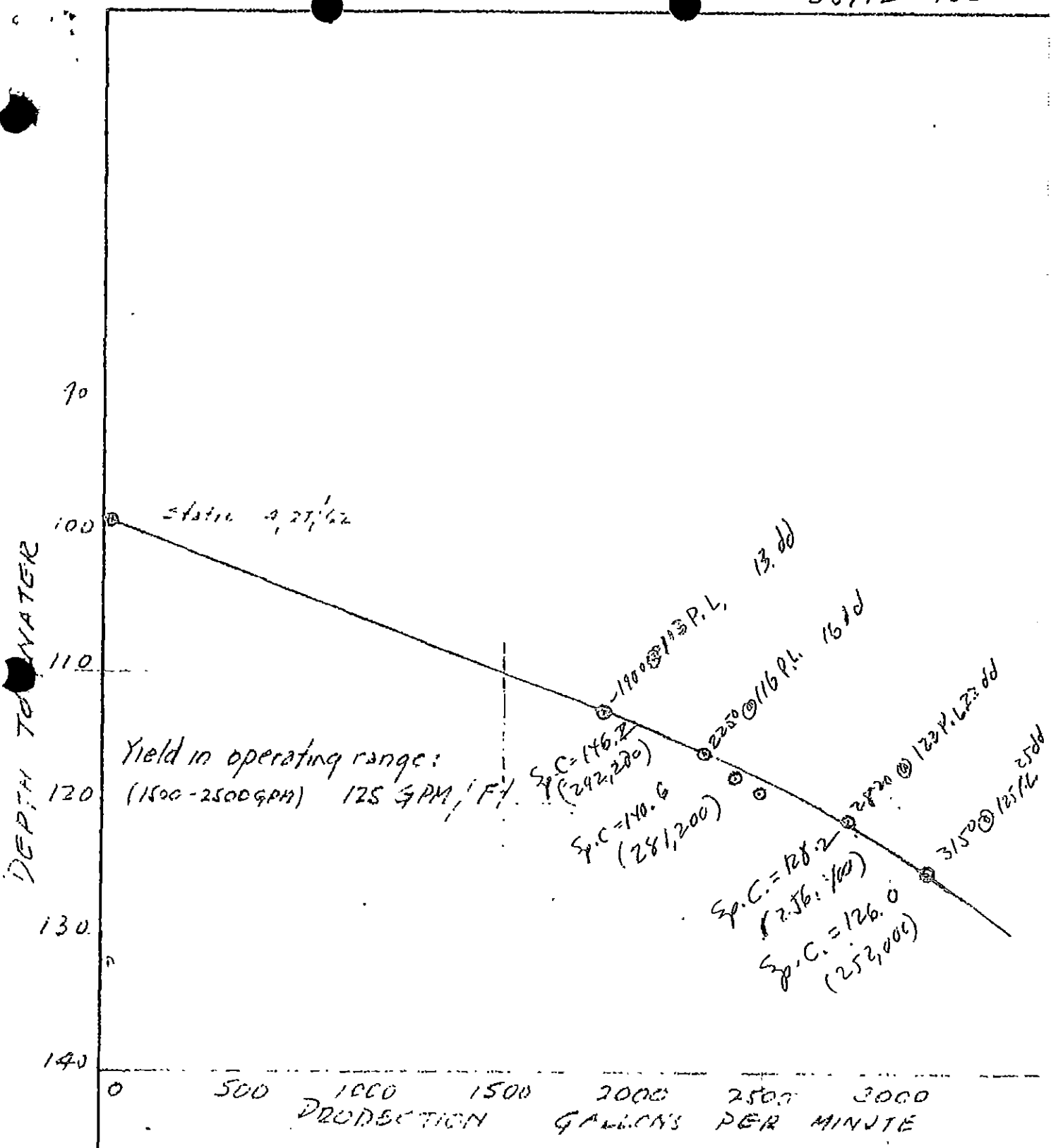
1962 JUN 19 PM 1 28

DEPARTMENT OF WATER RESOURCES  
SACRAMENTO

RECEIVED  
REGIONAL WATER POLLUTION CONTROL BOARD #2  
MAY 16 1962

3S/IE-16LE





Production test  
4/27/62 by Con Pump Well Co.

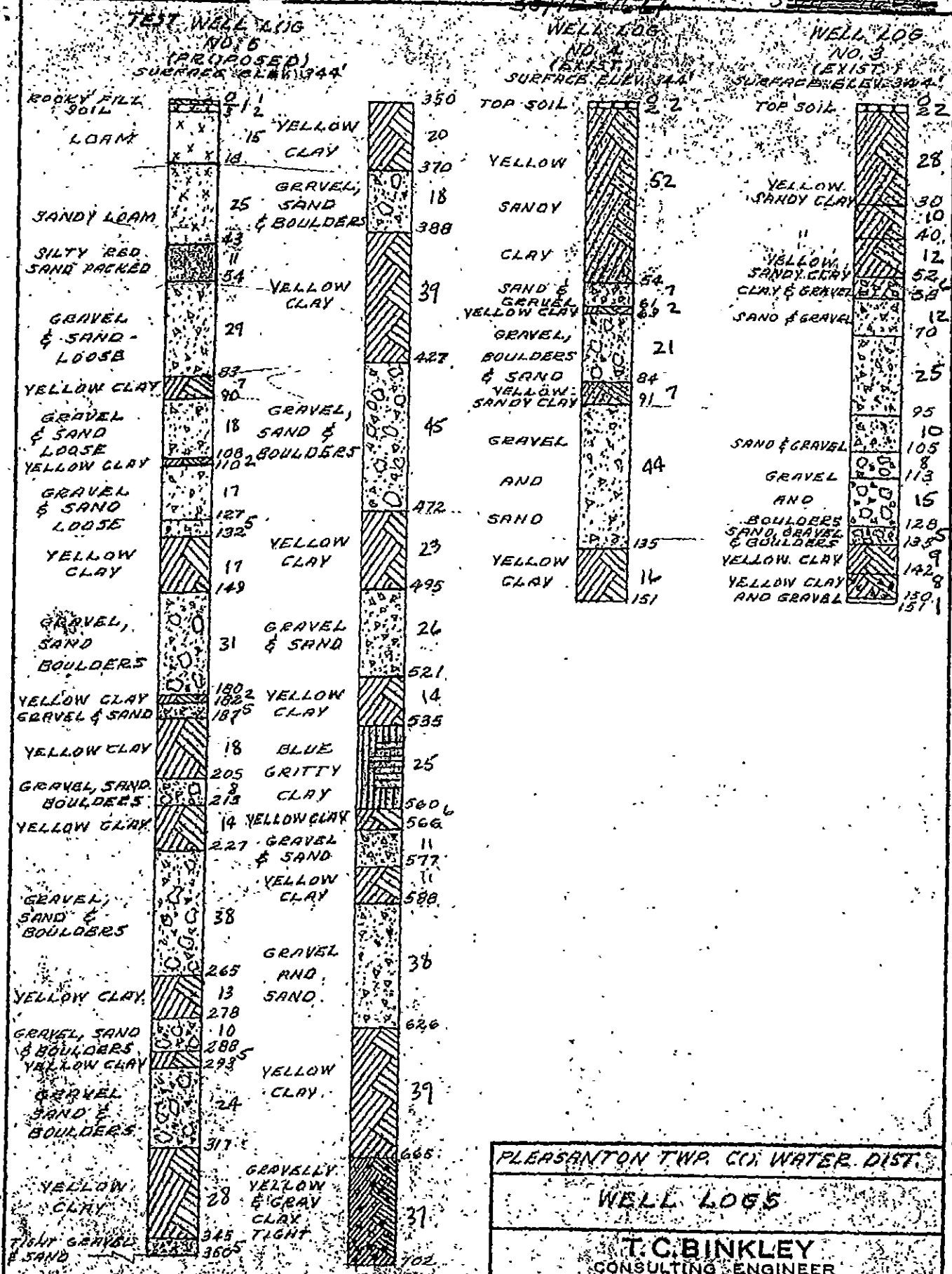
PLEASANTON TWP COUNTY WATER DIST.					
WELL NO. 5					
DRAWDOWN CURVE					
T. C. BINKLEY					
CONSULTING ENGINEER					
PALO ALTO, CALIFORNIA					
DR	TR	CH	REC	SCALE	DATE
					4/20/62

38/E-1665

40514

38/E-1665

38/E-1665



PLEASANTON TWP. CO. WATER DIST.

WELL LOG 5

T. C. BINKLEY  
CONSULTING ENGINEER  
PALO ALTO, CALIFORNIA

DR.	TR.	ACH.	REC.	SCALE	DATE
T.C.B.	W.R.			1" = 40'	12/28/61
APPROVED: T.C.B.				DWG 702	

ORIGINAL  
File with DWR

DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Do not fill in

No. 40514A

State Well No. 3S/1E 16L5  
Other Well No. Pleasanton 5

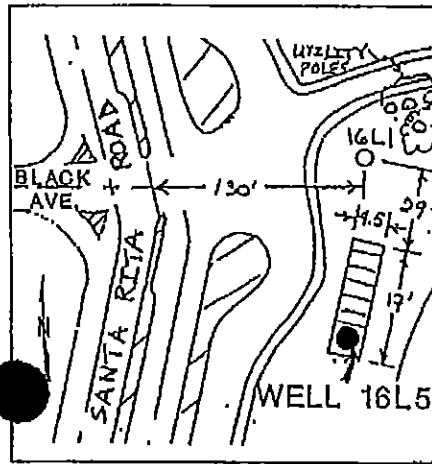
Area of Interest No. \_\_\_\_\_  
Permit No. or Date \_\_\_\_\_

(1) OWNER: Name City of Pleasanton  
Address 200 Old Bernal Avenue  
City Pleasanton ZIP 94566

(2) LOCATION OF WELL (See instructions):  
County Alameda Owner's Well Number \_\_\_\_\_  
Well address if different from above \_\_\_\_\_  
Township 3S Range 1E Section 16  
Distance from cities, roads, railroads, fences, etc. South and east  
of Santa Rita Road and Black Avenue  
intersection in Pleasanton.

(12) WELL LOG: Total depth 685 ft. Completed depth 650 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	1	Fill, rocky.
1	3	Soil.
3	18	Loam.
18	43	Sandy loam.
43	54	Silty red sand.
54	83	Gravel and sand, loose.
83	90	Yellow clay.
90	108	Gravel and sand.
108	110	Yellow clay.
110	132	Gravel and sand.
132	149	Yellow clay.
149	180	Gravel, sand, boulders.
180	201	Yellow clay.
201	212	Gravel, sand, boulders.
212	220	Yellow clay.
220	228	Blue clay and rotten logs.
228	265	Gravel, sand, boulders.
265	278	Yellow clay.
278	288	Gravel, sand, boulders.
288	293	Yellow clay.
293	317	Gravel, sand, boulders.
317	342	Yellow clay.
342	348	Gravel, boulders.
348	370	Yellow clay.
370	388	Gravel, sand, boulders.
388	427	Yellow clay.
427	472	Gravel, sand, boulders
472	495	Yellow gravelly clay.
495	521	Gravel, sand.
521	535	Yellow clay.
535	560	Blue clay, gritty.
560	566	Yellow clay.
566	577	Gravel, sand.
577	588	Yellow clay.
588	595	Gravel, sand.
595	602	Yellow gravelly clay.
602	630	Gravel, sand.
630	652	Yellow gravelly clay.
652	685	Tight gravelly yellow and blue clay.



(3) TYPE OF WORK:  
New Well  Deepening   
Reconstruction   
Reconditioning   
Horizontal Well   
Destruction  (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:  
Domestic   
Irrigation   
Industrial   
Test Well   
Municipal   
Other  (Describe)

(5) EQUIPMENT:  
Rotary  Reverse   
Cable  Air   
Other  Bucket

(6) GRAVEL PACK:  
Yes  No  Size 2 x 1/8  
Diameter of bore See reverse  
Packed from \_\_\_\_\_ ft.

(7) CASING INSTALLED:  
Steel  Plastic  Concrete

From ft.	To ft.	Dia. in.	Gage or Wall
0	135	30	1/2
0	325	18	5/16
325	650	12	1/4

(8) PERFORATIONS:  
Type of perforation or size of screen

From ft.	To ft.	Slot size
149	180	2 1/2 x 1/8
201	212	2 1/2 x 1/8
See reverse		

(9) WELL SEAL:  
Was surface sanitary seal provided? Yes  No  If yes, to depth 0 - 135 ft.  
Were strata sealed against pollution? Yes  No  Interval \_\_\_\_\_ ft.  
Method of sealing cemented, 36" OD, 30" ID

(10) WATER LEVELS:  
Depth of first water, if known \_\_\_\_\_ ft.  
Standing level after well completion 88 ft.

(11) WELL TESTS: See reverse  
Was well test made? Yes  No  If yes, by whom? Driller  
Type of test Pump  Bailor  Air lift   
22 ft. drawdown At end of test \_\_\_\_\_ ft.  
2820 gal/min after 100 hours Water temperature \_\_\_\_\_  
Chemical analysis made? Yes  No  If yes, by whom? \_\_\_\_\_  
Was electric log made? Yes  No  If yes, attach copy to this report

Work started 3 Feb 1962 Completed 4 Apr 1962

WELL DRILLER'S STATEMENT:  
Driller: Berlin Robinson  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Signed Original report signed unreadable Burdin  
(Well Driller)  
NAME C & N Pump and Well Company  
(Person, firm, or corporation) (Typed or printed)  
Address 1901 Washington Street  
City Santa Clara ZIP \_\_\_\_\_  
License No. 68648 Date of this report 1 Jul 62

## Gravel pack continued:

From (ft.)	To (ft.)	Diameter of bore (in.)
0	135	36
135	650	28

## Perforations: continued:

From (ft.)	To (ft.)	Slot size (in.)
228	265	2½ x 1/8
278	288	2½ x 1/8
293	317	2½ x 1/8
342	348	2½ x 1/8
370	388	2½ x 1/8
427	472	2½ x 1/8
495	521	2½ x 1/8
535	550	2½ x 1/8
566	577	2½ x 1/8
588	595	2½ x 1/8
602	630	2½ x 1/8
640	650	2½ x 1/8

45 factory louvers per linear foot.

## Well tests continued:

Static water level at 98 feet.

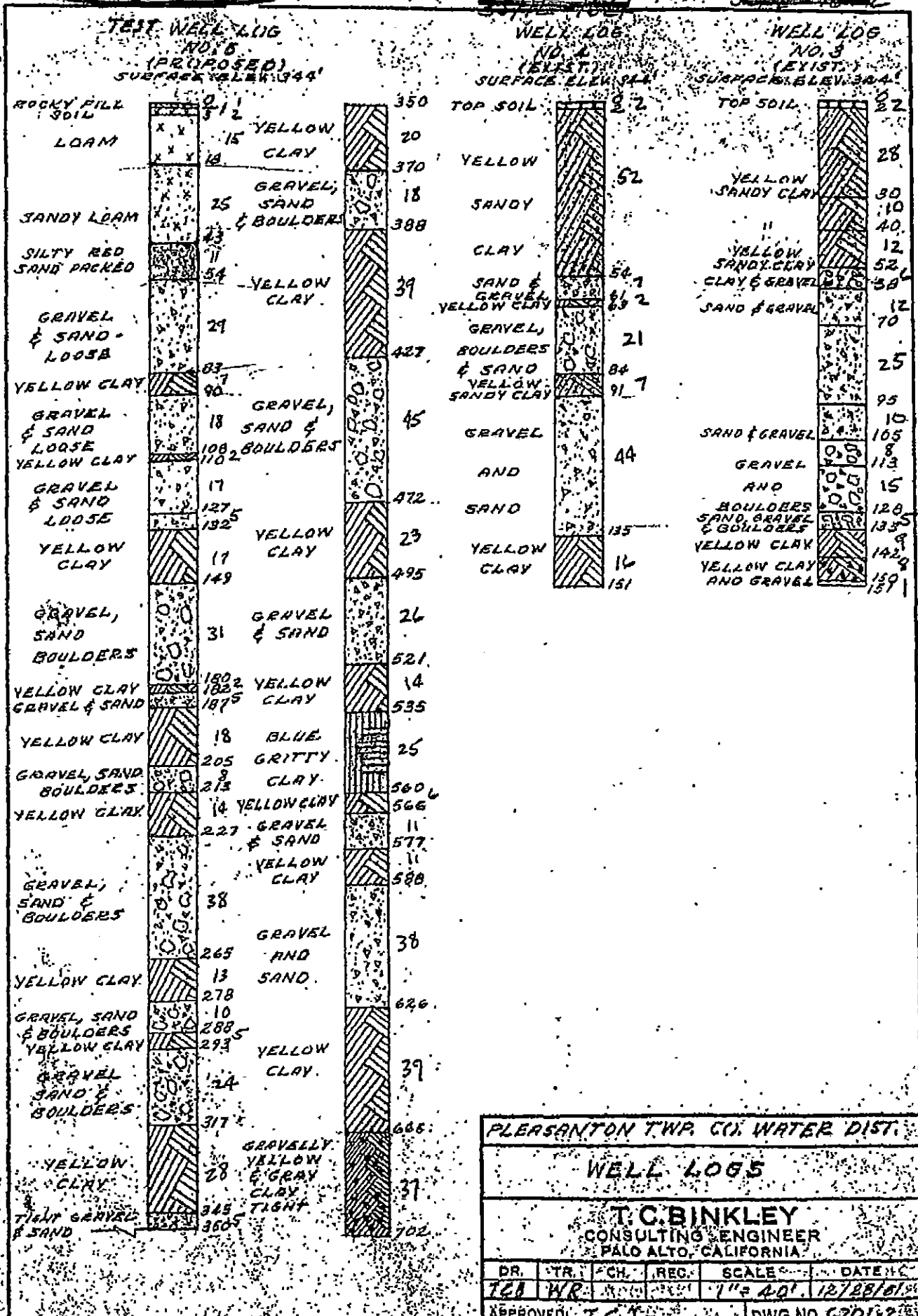
Discharge (gal./min.)	At (ft.)
3120	125
2820	121
2480	119
2390	118
2270	116
1880	113

Report prepared using original  
C & N Pump and Well Water Well  
Drillers Report and Zone 7  
file information for this well.

TNW 9 Nov 90

SI: d 2. 11. 90

38/E-1665



PLEASANTON TWP. CO. WATER DIST.

**WELL LOGS**

**T. C. BINKLEY**  
CONSULTING ENGINEER  
PALO ALTO, CALIFORNIA

DR.	TR.	CH.	REC.	SCALE	DATE
TED	WR			1" = 40'	12/28/61

APPROVED: T.C.B. DWG. NO. 67012

ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Do not fill in

No. 110882A

of Intent No. \_\_\_\_\_  
Permit No. or Date \_\_\_\_\_

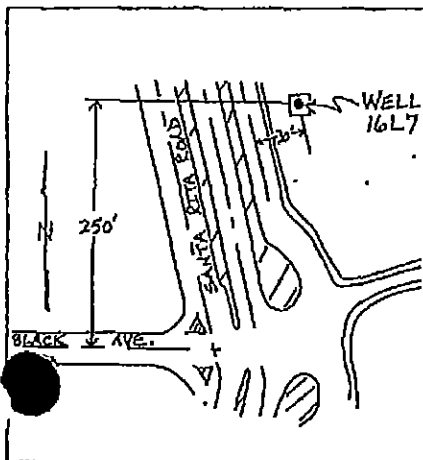
State Well No. 3S/1E 16L7  
Other Well No. Pleasanton 6

(1) OWNER: Name City of Pleasanton  
Address 200 Old Bernal Avenue  
City Pleasanton ZIP 94566

(12) WELL LOG: Total depth 647 ft. Completed depth 647 ft.  
from ft. to ft. Formation (Describe by color, character, size or material)

0	-	4	Soil.
4	-	18	Brown clay.
18	-	21	Brown sand and cobbles.
21	-	47	Gravel, cobbles and boulders.
47	-	54	Yellow clay.
54	-	77	Gravel, cobbles and boulders.
77	-	82	Gray clay.
82	-	92	Blue clay.
92	-	100	Boulders and gravel.
100	-	104	Yellow silt and gravel.
104	-	106	Boulders.
106	-	109	Small gravel.
109	-	112	Cobbles and gravel.
112	-	113	Gray clay and gravel.
113	-	125	Gravel and cobbles.
125	-	141	Red clay.
141	-	189	Cobbles and sand.
189	-	191	Gray clay.
191	-	194	Cobbles and sand.
194	-	199	Brown clay.
199	-	202	Blue clay (joint).
202	-	209	Brown clay.
209	-	216	Cobbles and sand.
216	-	218	Brown clay and cobbles.
218	-	228	Gravel and cobbles.
228	-	231	Sandy brown clay and cobbles.
231	-	233	Gravel and cobbles.
233	-	239	Yellow brown clay.
239	-	280	Gravel and cobbles.
280	-	284	Yellow brown clay.
284	-	300	Gravel and cobbles.
300	-	309	Yellow brown clay.
309	-	328	Gravel and cobbles.
328	-	338	Yellow brown clay.
338	-	342	Gravel and cobbles.
342	-	350	Yellow brown clay.
350	-	353	Blue clay.
353	-	354	Gravel and cobbles.

(2) LOCATION OF WELL (See instructions):  
County Alameda Owner's Well Number \_\_\_\_\_  
Well address if different from above \_\_\_\_\_  
Township 3S Range 1E Section 16  
Distance from cities, roads, railroads, fences, etc. North and east  
of Santa Rita Road and Black Avenue  
intersection in Pleasanton.



(3) TYPE OF WORK:  
New Well  Deepening   
Reconstruction   
Reconditioning   
Horizontal Well   
Destruction  (Describe destruction materials and procedures in item 12)  
(4) PROPOSED USE:  
Domestic   
Irrigation   
Industrial   
Test Well   
Municipal   
Other  (Describe)

(5) EQUIPMENT:  
Rolyo  Reverse   
Cable  Air   
Other  Bucket

(6) GRAVEL PACK: 3/8  
Yes  No  Size 1/8  
Diameter of bore see reverse  
Packed from \_\_\_\_\_ ft.

(7) CASING INSTALLED:  
Steel  Plastic  Concrete

(8) PERFORATIONS:  
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Cage or Wall	From ft.	To ft.	Size
+2	365	18	5/16	see reverse		
	see reverse					

228 - 231 Sandy brown clay and cobbles.  
231 - 233 Gravel and cobbles.  
233 - 239 Yellow brown clay.  
239 - 280 Gravel and cobbles.  
280 - 284 Yellow brown clay.  
284 - 300 Gravel and cobbles.  
300 - 309 Yellow brown clay.  
309 - 328 Gravel and cobbles.  
328 - 338 Yellow brown clay.  
338 - 342 Gravel and cobbles.  
342 - 350 Yellow brown clay.  
350 - 353 Blue clay.  
353 - 354 Gravel and cobbles.

(9) WELL SEAL:  
Was surface sanitary seal provided? Yes  No  If yes, to depth 0 - 130 ft.  
Were strata sealed against pollution? Yes  No  Interval \_\_\_\_\_ ft.  
Method of sealing cement grout

- Well log continued on reverse.  
Work started 18 Feb 1965 Completed 11 May 1965

(10) WATER LEVELS:  
Depth of first water, if known 78 ft.  
Standing level after well completion \_\_\_\_\_ ft.

WELL DRILLER'S STATEMENT:

(11) WELL TESTS:  
Anderson Pump Co.  
Was well test made? Yes  No  If yes, by whom? Chowchilla  
Type of test Pump & drawdown At end of test \_\_\_\_\_ ft.  
3052 gal/min after \_\_\_\_\_ hours Water temperature \_\_\_\_\_  
Chemical analysis made? Yes  No  If yes, by whom? \_\_\_\_\_  
Was electric log made? Yes  No  If yes, attach copy to this report

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Signed, Original report signed Bill Belknap  
(Well Driller)  
NAME Bill Belknap  
(Person, firm, or corporation) (Type or printed)  
Address 9274 South Buttonwillow  
City Reedley ZIP \_\_\_\_\_  
License No. 106833 Date of this report 10 May 65

Well log continued...

from (ft.) to (ft.)		Formation
354	365	Blue clay.
365	369	Brown clay.
369	372	Boulders and clay.
372	383	Brown clay.
383	386	Boulders.
386	404	Sand and gravel, some boulders.
404	435	Brown clay.
435	471	Cobbles.
471	474	Yellow brown clay.
474	488	Sand and gravel and cobbles.
488	508	Yellow brown clay.
508	513	Sand and gravel, some cobbles.
513	521	Yellow brown clay.
521	532	Gravel and cobbles.
532	540	Yellow brown clay.
540	549	Gray clay (jointy).
549	582	Blue clay.
582	584	Gravel.
584	586	Yellow brown clay.
586	609	Gravel and cobbles.
609	611	Gray clay.
611	627	Gravel and boulders.
627	636	Gray clay.
636	640	Gravel.
640	647	Brown clay.

## Gravel pack continued:

from (ft.)	to (ft.)	Diameter of bore (in.)
0	130	36
130	647	28

## Casing installed continued:

from (ft.)	to (ft.)	Diameter (in.)	Gage or Wall
365	371	18 to 14 taper	
	625	14	5/16
	647	14 OD	1/4

## Band Shoe

## Perforations:

from (ft.)	to (ft.)	Slot size	Perfs. per row	Type
165	365	2½ x 1/8	12	louvered
371	625	2½ x 1/8	8	louvered
625	647	2½ x 1/8	14	saw

4 rows of perforations, 4 rows per foot.

Information from original Bill  
Belknap Water Well Drillers  
Report.

WH 12 Oct 90

914 0 2 3 699

100

ORIGINAL  
File Original, Duplicate and Triplicate with the  
REGIONAL WATER POLLUTION  
CONTROL BOARD No. 2  
(Insert appropriate number)

**WATER WELL DRILLERS REPORT**  
(Sections 7076, 7077, 7078, Water Code)  
**THE RESOURCES AGENCY OF CALIFORNIA**

505  
Do Not Fill In  
No. 110882  
State Well No. \_\_\_\_\_  
Other Well No. 3/1-1-1

(1) OWNER:  
Name Pleasanton Township County Water District  
Address  
Pleasanton, California

(2) LOCATION OF WELL:  
County Alameda Owner's number, if any— 6  
R. F. D. or Street No.  
East side of Santa Rita Road about 80' north of driveway to Alisal Elementary School, About 30' east of frontage road on Lot 54 of Tract 2595, Amador Estates, Unit #1.

(3) TYPE OF WORK (check):  
New well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):  
Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(5) EQUIPMENT:  
Rotary   
Cable   
Dug Well

(6) CASING INSTALLED:  
SINGLE  DOUBLE

From	ft. to	ft.	Diam.	Gage of Wall	Diameter of Bore	from ft.	to ft.
Up	2	365	18"	5/16"			
	365	371	18"	to 14" taper			
	371	625	14"	5/16"	36"	0	130
	625	647	14"	OD 1/4"	28"	130	647

Types and size of shoe or well ring Band Size of gravel: 3/8 x 1/8  
Describe joint Collars

(7) PERFORATIONS:

Type of perforator used Louvers, except 625-647' were saved

From	ft. to	ft.	In., length, by	Perf. per row	Rows per ft.
	165	365	2 1/8	12	4
	371	625	1 1/8	8	4
	625	647	1 1/8	14	4

(8) CONSTRUCTION:  
Was a surface sanitary seal provided?  Yes  No To what depth 130 ft.  
Were any strata sealed against gellation?  Yes  No If yes, note depth of strata  
From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Method of Sealing Cement grout

(9) WATER LEVELS:  
Depth at which water was first found 78 ft.  
Standing level before perforating \_\_\_\_\_ ft.  
Standing level after perforating \_\_\_\_\_ ft.

(10) WELL TESTS:  
Anderson Pump Co.  
Was a pump test made?  Yes  No If yes, by whom? Chowohilla, Calif.  
Yields 3052 gal./min. with 28' ft. draw down after \_\_\_\_\_ hrs.  
Temperature of water \_\_\_\_\_ Was a chemical analysis made?  Yes  No  
Was electric log made of well?  Yes  No

(11) WELL LOG:

Total depth	ft.	Depth of Completed well	ft.
0	ft. to	4	ft. Soil
4		18	Brown clay
18		21	Brown sand and cobbles
21		47	Gravel, cobbles & boulders
47		54	Yellow clay
54		77	Gravel, cobbles & boulders
77		82	Gray clay
82		92	Blue clay
92		100	Boulders and gravel
100		104	Yellow silt & gravel
104		106	Boulders
106		109	Small gravel
109		112	Cobbles and gravel
112		113	Grey clay and gravel
113		125	Gravel and cobbles
125		141	Red clay
141		189	Cobbles and sand
189		191	Grey clay
191		194	Cobbles and sand
194		199	Brown clay
199		202	Blue clay (joint)
202		209	Brown clay
209		216	Cobbles and sand
216		218	Brown clay and cobbles
218		228	Gravel and cobbles
228		231	Sandy brown clay & cobbles
231		233	Gravel and cobbles
233		239	Yellow-brown clay
239		280	Gravel and cobbles
280		284	Yellow brown clay
284		300	Gravel and cobbles
300		309	Yellow brown clay
309		328	Gravel and cobbles
328		338	Yellow brown clay
338		342	Gravel and cobbles
342		350	Yellow brown clay
350		353	Blue clay
353		354	Gravel and cobbles
354		365	Blue clay
365		369	Brown clay
369		372	Boulders and clay
372		383	Brown clay

“(cont. on reverse)”

Work started 2/18/65 19 \_\_\_\_\_ Completed 5/11/65 19 \_\_\_\_\_

WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Bill Belknap  
(Person, firm, or corporation) (Typed or printed)  
Address 9274 So. Buitonwillow  
Reedley, California

[SIGNED] Bill Belknap  
Well Driller

License No. 106833 Dated 5/10/65, 19 \_\_\_\_\_

FOR OFFICIAL USE ONLY



110882

11. WELL LOG:

383	386	Boulders
386	404	Sand and gravel; some boulders
404	435	Brown clay
435	471	Cobbles
471	474	Yellow brown clay
474	488	Sand and gravel and cobbles
488	508	Yellow brown clay
508	513	Sand and gravel; some cobbles
513	521	Yellow brown clay
521	532	Gravel and cobbles
532	540	Yellow brown clay
540	549	Grey clay (jointy)
549	582	Blue clay
582	584	Gravel
584	586	Yellow brown clay
586	609	Gravel and cobbles
609	611	Grey clay
611	627	Gravel and boulders
627	636	Grey clay
636	640	Gravel
640	647	Brown clay

RECEIVED  
 REGIONAL WATER POLLUTION CONTROL BOARD  
 MAY 12 1958