



Equity Enterprises
Real Estate Brokerage
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By Alameda County Environmental Health 10:05 am, Aug 01, 2017

July 25, 2017

Ms. Dilan Roe
Chief-Land Water Division
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Subject: Soil and Groundwater Investigation Report Addendum
Main Street Property
927 Main Street
Pleasanton, California 94566
ACDEH Fuel Leak Case No. RO0003199
GeoTracker Global ID No. T10000008158

Dear Ms. Dilan:

Equity Enterprises is pleased to present the enclosed report addendum, prepared by Environmental Risk Assessors (ERA), presenting the findings of additional investigation at 927 Main Street in Pleasanton, California. ERA performed an investigation in accordance with the *Soil and Groundwater Investigation Work Plan, Main Street Property, 927 Main Street, Pleasanton, California 94566*, dated April 14, 2017, and presented the findings in the *Soil and Groundwater Investigation Report, Main Street Property, 927 Main Street, Pleasanton, California 94566* ("the SWI Report"), dated June 26, 2017. Additional investigation data obtained by the adjoining property owner's consultant and provided to ERA following submittal of the SWI Report is presented in this addendum.

I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the State Water Resource Control Board's GeoTracker website.

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

Sincerely,

Brad Hirst
Equity Enterprises



Environmental Risk Assessors

July 25, 2017

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

SUBJECT: Soil and Groundwater Investigation Report Addendum
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 Addendum for the above-referenced property (the Site). This Addendum summarizes the findings of additional investigation at 927 Main Street in Pleasanton, California. ERA performed an investigation in accordance with the *Soil and Groundwater Investigation Work Plan, Main Street Property, 927 Main Street, Pleasanton, California 94566*, dated April 14, 2017, and presented the findings in the *Soil and Groundwater Investigation Report, Main Street Property, 927 Main Street, Pleasanton, California 94566* ("the SWI Report"), dated June 26, 2017. Additional investigation data obtained by the adjoining property owner's consultant and provided to ERA following submittal of the SWI Report is presented in this addendum.

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 if you have any questions or comments regarding this assessment.

Sincerely,
Environmental Risk Assessors

Lita D. Freeman, PG
Professional Geologist



* 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.

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Environmental Risk Assessors

July 25, 2017

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

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

Dear Mr. Hirst,

Environmental Risk Assessors (ERA) is providing environmental services to Equity Enterprises for the property located at 927 Main Street, Pleasanton, Alameda County, California (the "Site"; Figure 1) under the oversight of the Alameda County Department of Environmental Health (ACDEH). 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. The findings of the most recent site investigation performed by ERA in accordance with the *Soil and Groundwater Investigation Work Plan* (the "Work Plan"; ERA, 2017a) were presented in the *Soil and Groundwater Investigation Report* (the "SWI Report") dated June 26, 2017 (ERA, 2017b).

This Addendum presents additional investigation data obtained by the legal representative for the southwest adjoining property known as 915 Main Street, Pleasanton, California, hereinafter referred to as the "Adjacent Site."

PURPOSE

The purpose of this Addendum is to summarize additional investigation data provided to ERA. The data was reportedly obtained during field work that included advancing borings SB-10 and SB-11 on the Adjacent Site in June 2017. The purpose of collecting and analyzing soil and groundwater samples from boring SB-10 was to evaluate impacts, if any, to the subsurface near the Site by past activities at off-site upgradient properties and the purpose of collecting and analyzing a soil gas sample from boring SB-11 was to assess if petroleum hydrocarbons reported in groundwater beneath the Site had migrating upward through the soil column to the area of the building addressed 915 Main Street.

SITE DESCRIPTION AND BACKGROUND

The Site consists of approximately 8,115 square feet of land identified as Alameda County Assessor Parcel Number (APN) 946-3370-22. The single-story 2,340-square-foot building (addressed 927 Main Street) located on site was constructed in 1980 and is currently occupied

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by a Subway sandwich shop and a Hanadi Sushi restaurant (Figure 2). A multi-tenant single-story commercial building is currently present on the Adjacent Site (APN 946-3370-19).

Information obtained by Basics Environmental, Inc. during their Phase I ESA (Basics Environmental, 2013) indicated that gas and oil facilities were located on the southeastern portion of the Site and on the Adjacent Site from the late-1930s/early-1940s to the early 1950s. In the 1970s a Robo-branded car wash was present on the Adjacent Site and extended onto the Site. The approximate footprints of the former buildings addressed 40 and 40A Santa Rita Road are shown on Figure 2.

No specific information on former operations (i.e., capacity, type, and location of former underground storage tanks [USTs], pump island locations, auto maintenance areas, hazardous materials use, etc.), tank removals, or associated confirmation sampling was obtained from local regulatory agency files by Basics Environmental. Anomalies indicative of USTs or backfilled excavations were not identified during a geophysical survey conducted by CBRE, Inc. in 2016 (CBRE, 2016) at the Site, the Adjacent Site, and the north adjoining property.

An initial investigation conducted on site in 2015 identified petroleum hydrocarbons in groundwater beneath the Site (ERA, 2015) and a subsequent investigation conducted on the Site and Adjacent Site in 2016 identified petroleum hydrocarbons in groundwater in the area of the former on-site gas and oil facility but not in the area of the gas and oil facility formerly located on the Adjacent Site (ERA, 2016). At ACDEH's request, ERA performed additional sampling in May 2017 to help delineate the groundwater plume and evaluate naphthalene in soil gas, indoor air, and ambient air. This sampling was performed in general accordance with the Work Plan (ERA, 2017a) conditionally approved by the ACDEH in their letter dated April 26, 2017 (ACDEH, 2017).

Prior to ERA beginning field work in May 2017, Darrick Sun, Esq. of the Sun Law Firm, representative of the Paul C.K. and Alice T. H. Sun Trust (the owner of the Adjacent Site), notified Equity Enterprises that Sun Trust would retain a consultant to collect samples from borings SB-10 and SB-11 as described in the Work Plan (ERA, 2017a). Sun Law Firm retained ATC Associates, Inc. (ATC) to oversee field work on the Adjacent Site. Data from ATC's investigation is summarized below.

ETIC Engineering, Inc. (ETIC) conducted a groundwater monitoring event in 2009 at the Mobil service station formerly located to the Site's northeast across Main Street (ETIC, 2009). Based on depth-to-water measurements obtained during this monitoring event, local groundwater flow direction was inferred to be to the east-northeast. Historically, local groundwater flow direction was generally northward. Based on a generally northward groundwater flow direction, boring SB-10 would be located upgradient of boring SB-8, advanced during ERA's site investigation in May 2017 on the southwestern portion of the Site, and boring SB-11 would be located crossgradient of boring SB-9, advanced during ERA's site investigation in May 2017 on the northwestern portion of the Site. Petroleum hydrocarbons were not reported in groundwater samples collected from borings SB-8 and SB-9 at concentrations at or above the laboratory reporting limits (lab RL).

ADDITIONAL INVESTIGATION RESULTS

According to information provided by Sun Law Firm, field work was conducted by ATC on June 19, 2017. ERA's representative was not present during this field work and a report documenting

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ATC's work was not provided to ERA. Data from ATC's investigation was provided to ERA by Sun Law Firm and included the following:

- Figure 3 from the Work Plan (ERA, 2017a) showing the locations where borings SB-10 and SB-11 were advanced by ATC;
- The log for boring SB-10 prepared by ATC's field technician; and
- The laboratory report for the soil and groundwater samples from boring SB-10 and the soil gas sample from boring SB-11.

Field Work

According to the information presented on ATC's log for boring SB-10 and the chains-of-custody (COC) for the soil, groundwater, and soil gas samples, field work was conducted by ATC on June 19, 2017.

ERA noted that the log for boring SB-10 presents the 927 Main Street address. Figure 3 from the Work Plan (ERA, 2017) shows borings SB-10 and SB-11 on the Adjacent Site and located to the southeast and east, respectively, of the building addressed 915 Main Street. ERA assumes that the log presents the 927 Main Street address because this is the address associated with the ACDEH case.

Information presented on the boring log for SB-10 indicates that the boring was advanced by Gregg (Drilling) using a direct push drilling rig. Soil samples were reported to have been collected from various depths, including at 2.5 feet below ground surface (bgs) and 7 feet bgs, in 2-inch diameter acetate tubes.

Each photoionization detector (PID) reading was recorded on the boring log as 0.0 parts per million volume. Evidence of chemical staining of soil samples collected from boring SB-10 was not noted by ATC's technician on the log. ATC's technician did note that "... the boring caves in to ~ 5' bgs prior to advancement each time, representative soil is only observed in the drill bit and up to 3" in the acetate tube for depth runs from 20' to TD". Based on the soil descriptions provided on the boring log, it appears that sufficient information was obtained to document soil conditions, including staining. ATC's representative confirmed to Sun Law Firm that no evidence of chemical staining of soil samples was observed during drilling of boring SB-10. Moist-wet soil was noted at a depth of approximately 32 feet bgs and wet soil was noted at a depth of approximately 38 feet bgs. Boring SB-10 was drilled to a total depth of 45 feet bgs. The moist and wet soil conditions reported by ATC's technician are generally consistent with ERA findings.

Soil and Groundwater

According to the COCs, the soil samples (SB-10-2.5 and SB-10-7) from depths of 2.5 feet bgs and 7 feet bgs and the groundwater sample (SB-10-GW) collected from boring SB-10 were submitted to McCampbell Analytical, Inc. (McCampbell Analytical) of Pittsburg, California for the following analyses:

- Volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (U.S. EPA) Method 8260B, with only benzene, toluene, ethylbenzene, xylenes (collectively BTEX), methyl tert-butyl ether (MTBE), and naphthalene reported;
- Total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg) using U.S. EPA

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SW8015B (purgeable) without silica gel cleanup; and

- TPH quantified as diesel (TPHd) and TPH quantified as motor oil (TPHmo) using U.S. EPA SW8015B (purgeable) without silica gel cleanup.

The analysis of the soil and groundwater samples revealed the following:

- BTEX, MTBE, and naphthalene were not reported in the soil samples at concentrations at or above the lab RL of 0.005 milligrams per kilogram (mg/kg) for each of these compounds or in the groundwater sample at concentrations at or above the lab RL of 0.5 micrograms per liter ($\mu\text{g/L}$) for each of these compounds;
- TPHg was not reported in the soil or groundwater samples at concentrations at or above the lab RL of 1 mg/kg for soil and 50 $\mu\text{g/L}$ for groundwater;
- TPHd was not reported in the soil or groundwater samples at concentrations at or above the lab RL of 1 mg/kg for soil and 100 $\mu\text{g/L}$ for groundwater; and
- TPHmo was reported in soil sample SB-10-2.5 at a concentration of 13 mg/kg but was not reported in soil sample SB-10-7 or in groundwater SB-10-GW at a concentration at or above the lab RL of 5 mg/kg for soil and 500 $\mu\text{g/L}$ for groundwater.

ERA compared analytical results for samples collected from boring SB-10 to Tier 1 Environmental Screening Levels (ESLs) established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, 2016). The comparison revealed the following:

- The lab RL of 0.005 mg/kg for BTEX, MTBE, and naphthalene in soil samples is below the Tier 1 ESL for each as follows: benzene = 0.044 mg/kg, toluene = 2.9 mg/kg, ethylbenzene = 1.4 mg/kg, xylenes = 2.3 mg/kg, MTBE = 0.023 mg/kg, and naphthalene = 0.023 mg/kg;
- The lab RL of 0.5 $\mu\text{g/L}$ for BTEX, MTBE, and naphthalene in groundwater is below the Tier 1 ESL for each except naphthalene as follows: benzene = 1 $\mu\text{g/L}$, toluene = 40 $\mu\text{g/L}$, ethylbenzene = 13 $\mu\text{g/L}$, xylenes = 20 $\mu\text{g/L}$, MTBE = 5 $\mu\text{g/L}$, and naphthalene = 0.12 $\mu\text{g/L}$;
- The lab RL of 1 mg/kg for TPHg in soil is below its' Tier 1 ESL of 100 mg/kg and the lab RL of 50 $\mu\text{g/L}$ for TPHg in groundwater is below its' Tier 1 ESL of 100 $\mu\text{g/L}$;
- The lab RL of 1 mg/kg for TPHd in soil is below its' Tier 1 ESL of 240 mg/kg and the lab RL of 100 $\mu\text{g/L}$ for TPHd in groundwater is equal to its' Tier 1 ESL of 100 $\mu\text{g/L}$;
- The TPHmo concentration in soil sample SB-10-2.5 (13 mg/kg) and the TPHmo lab RL for soil sample SB-10-7 (5 mg/kg) are below its' Tier 1 ESL of 100 mg/kg; and
- The lab RL of 500 $\mu\text{g/L}$ for TPHmo in groundwater is above the Tier 1 ESL of 100 $\mu\text{g/L}$ for TPHd which is presented for TPHmo because Note 2 of the Tier 1 ESL states that TPHmo is not soluble so TPHmo detections in water are most likely petroleum degradates or less likely non-aqueous phase liquids and, if the detections are degradates, the TPHmo and TPHd concentrations should be added and the result compared to the TPHd criterion; therefore, the TPHmo RL was compared to the Tier 1 ESL for TPHd.

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The Work Plan (ERA, 2017a) noted that the VOCs tert-Butyl Alcohol (TBA), 1,2-dichloroethane (EDC [or 1,2-DCA]), and 1,2-dibromoethane (EDB) would be reported by the laboratory for the soil and groundwater samples; however, these VOCs were not reported by the laboratory for the soil and groundwater samples collected from boring SB-10.

Soil Gas

A soil gas sample was collected at a depth of approximately 5 feet bgs from boring SB-11 by ATC's technician, according to the information provided by ATC to Sun Law Firm. The COC indicates that a soil gas sample was collected in a Summa canister and submitted for VOC analysis by TO-15 and in a tube for naphthalene analysis by TO-17. The beginning and ending vacuum readings for the Summa canister were recorded on the COC as -30 inches of mercury (Hg) and -8 inches of Hg, respectively.

Analysis of the soil gas samples did not reveal naphthalene at a concentration at or above the lab RL of 5.3 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) using TO-15 analysis or the lab RL of 3.8 $\mu\text{g}/\text{m}^3$ using TO-17 analysis. EDB and 1,2-DCA were not reported at concentrations at or above their respective lab RL of 3.9 $\mu\text{g}/\text{m}^3$ and 2.0 $\mu\text{g}/\text{m}^3$, using TO-15 analysis.

The leak check compound helium was not reported at or above the lab RL of 0.05 percent.

ERA collected a soil gas sample from sampling location SB-5A on the eastern side of the on-site building (927 Main Street) during the recent site investigation (ERA, 2017b). Using the naphthalene concentration of 0.61 $\mu\text{g}/\text{m}^3$ reported for soil gas sample SB-5A and an indoor air concentration of 0.0305 $\mu\text{g}/\text{m}^3$ for the on-site building (calculated based on the naphthalene concentration of 0.61 $\mu\text{g}/\text{m}^3$ and an attenuation factor of 0.05), estimated risks for a commercial worker were calculated by ERA. The estimated risks based on exposure to naphthalene in indoor air include an incremental cancer risk of 1.6×10^{-6} and a non-cancer hazard index of 0.034 (ERA, 2017b).

DTSC's Guidance (DTSC, 2011) indicates that predicted risks between 1×10^{-6} and 1×10^{-4} should be evaluated further including monitoring or additional data collection. The risk estimates are considered upper bound estimates of risk; it is very likely that the true risks are less than those predicted. In general, the U.S. EPA considers excess cancer risks that are below about 1 chance in 1,000,000 (1×10^{-6}) to be so small as to be negligible, and risks above 1×10^{-4} to be sufficiently large that remediation is desirable (http://www.epa.gov/region8/r8risk/hh_risk.html). Excess cancer risks that range between 1×10^{-6} and 1×10^{-4} are generally considered to be acceptable but is evaluated on a case-by-case basis.

ERA did not calculate the estimated incremental cancer risk based on exposure to naphthalene in indoor air using a naphthalene soil gas concentration equal to the lab RL of 5.3 $\mu\text{g}/\text{m}^3$ for the soil gas sample from sampling location SB-11 because it is assumed the result would be significantly higher than the result of 1.6×10^{-6} estimated using the naphthalene soil gas concentration of 0.61 $\mu\text{g}/\text{m}^3$ from sampling location SB-5A.

CONCLUSIONS

No elevated (above background) PID readings and no evidence of petroleum hydrocarbon staining was reported for boring SB-10. Petroleum hydrocarbons that were analyzed for in the soil and groundwater samples from boring SB-10 were not reported at concentrations at or above their respective lab RL except TPHmo reported in soil sample SB-10-2.5 at a

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concentration of 13 mg/kg. These findings are consistent with those for boring SB-8, advanced by ERA on the southwestern portion of the Site and located downgradient of boring SB-10.

Based on information provided to ERA, one deviation from the Work Plan (ERA, 2017a) was noted. The VOCs TBA, 1,2-DCA, and EDB were to be reported by the laboratory for soil and groundwater samples; however, these VOCs were not reported by the laboratory for the samples collected from boring SB-10. These compounds were not reported in the soil and groundwater samples collected from borings SB-8 and SB-9 at concentrations at or above their lab RL; therefore, these compounds do not appear to be present in soil and groundwater beneath the western portion of the Site and lack of reporting for these compounds in the soil and groundwater samples from boring SB-10 does not appear to be a significant concern.

The lab RL of 0.5 µg/L for naphthalene in groundwater sample SB-10-GW is above its' Tier 1 ESL of 0.12 µg/L. However, the naphthalene lab RL of 1.2 µg/L for the groundwater sample from boring SB-8, located downgradient of boring SB-10, was also above its' Tier 1 ESL. The presence of naphthalene at a concentration equal to the lab RL of 0.12 µg/L would be unlikely to present a significant environmental concern based on the reported naphthalene concentration of 19 µg/L for the groundwater sample collected from boring SB-5 and the low risk to indoor air calculated by ERA based on the naphthalene concentration reported in the soil gas sample collected in May 2017 from sampling location SB-5A, located in the same area as boring SB-5.

As discussed in the SWI Report (ERA, 2017b), an incremental cancer risk of 1.6×10^{-6} was estimated by ERA at the Site using the naphthalene concentration of 0.61 µg/m³ from sampling location SB-5A. Estimating the incremental cancer risk in the area of sampling location SB-11 using a naphthalene concentration equal to the highest lab RL (5.3 µg/m³) would provide a result much higher than that calculated for the area of sampling location SB-5A. However, it is unlikely that the naphthalene concentration in soil gas at and near sampling location SB-11 would be as high as the lab RL of 5.3 µg/m³ because: 1) naphthalene was reported in the groundwater and soil gas samples from borings SB-5 and SB-5A at concentrations of 19 µg/L and 0.61 µg/m³, respectively; 2) naphthalene was not reported in the groundwater samples from borings SB-8 and SB-9 (located approximately 70 feet southeast and 65 feet northeast, respectively, from boring SB-11) at concentrations at or above the lab RL of 1.2 µg/L so naphthalene would likely not be present in soil gas at these locations at concentrations that would result in elevated concentrations of naphthalene in indoor air at the building addressed 915 Main Street; and 3) the presence of more than 30 feet of fine-grained soil (silt and silty clay) in the area of boring SB-11 based on soil types logged by ERA for borings SB-8 and SB-9 would likely impede the upward migration of naphthalene from the groundwater to the surface and into the 915 Main Street building.

RECOMMENDATIONS

The additional data obtained from drilling and sampling borings SB-10 and SB-11 supports the recommendation of no further investigation at the 927 Main Street property presented in the SWI Report (ERA, 2017b).

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CLOSING

Use of this letter is limited by and subject to the terms and conditions of the contract between ERA and Equity Enterprises and the qualifications, disclaimers, and limitations stated in the SWI Report (ERA, 2017b).

Please do not hesitate to contact me at (916) 677-9897 or via email at litafreeman@gmail.com if you have any questions or comments regarding this assessment.

Sincerely,

Environmental Risk Assessors



Lita D. Freeman, PG
Professional Geologist



Figures

- 1 Site Location Map
- 2 Site Plan

Attachments

- 1 Documents Related to Investigation by ATC Associates, Inc.

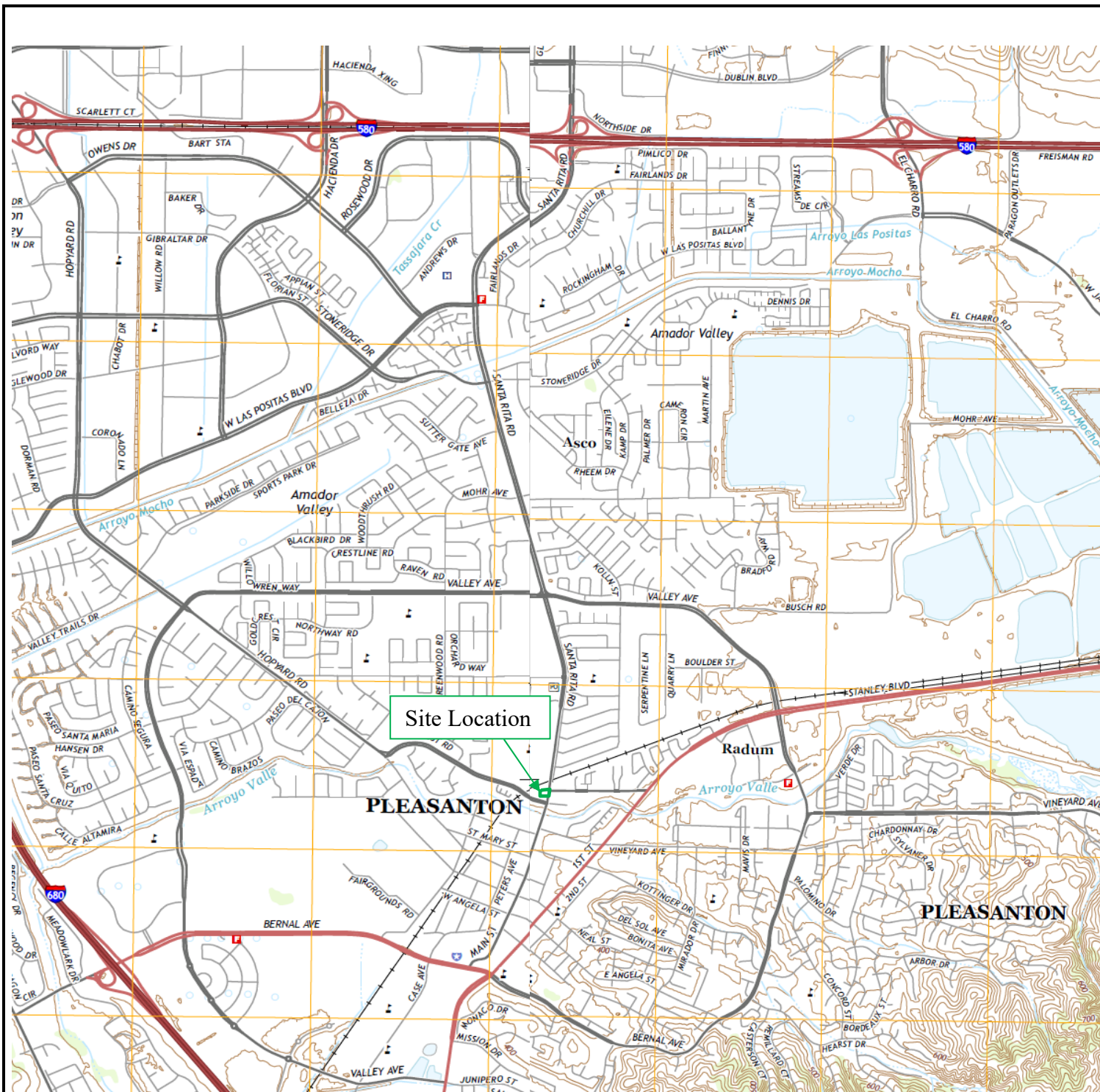
References

- Alameda County Department of Environmental Health (ACDEH). 2017. Conditional Work Plan Approval for Fuel Leak Case No. RO0003199 and GeoTracker Global ID T10000008158, Main Street Property, 927 Main Street, Pleasanton, CA 94566. April 26.
- Basics Environmental, Inc. 2013. *Phase I Environmental Site Assessment, 927 Main Street, Pleasanton, California*. December 5.
- California Environmental Protection Agency Department of Toxic Substances Control (DTSC). 2011. *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*. October.
- California Environmental Protection Agency San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). 2016. *Environmental Screening Levels, Tier 1 ESLs*. February.
- CBRE, Inc. 2016. *Geophysical Survey, 915 Main Street, Pleasanton, California*. March 30.
- Environmental Risk Assessors. 2015. *Limited Phase II Environmental Site Assessment Report, Main Street Property, 927 Main Street, Pleasanton, California 94566*. November 27.
- . 2016. *Soil and Groundwater Investigation Report, Main Street Property, 927 Main Street, Pleasanton, California 94566*. October 10.

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- 2017a. *Soil and Groundwater Investigation Work Plan, Main Street Property, 927 Main Street, Pleasanton, California 94566*. April 14.
- 2017b. *Soil and Groundwater Investigation Report, Main Street Property, 927 Main Street, Pleasanton, California 94566*. June 26.
- ETIC Engineering, Inc. (ETIC). 2009a. *Report of Groundwater Monitoring, Third Quarter 2009, Former Mobil Station 04H6J, 1024 Main Street, Pleasanton, California*. September 9.

Figures



USGS Dublin and Livermore, California Quadrangle Topographic Maps, 2015

Legend Site (boundaries approximate)	Scale feet (approximate)	North



Site Location Map

Soil and Groundwater Investigation Report Addendum

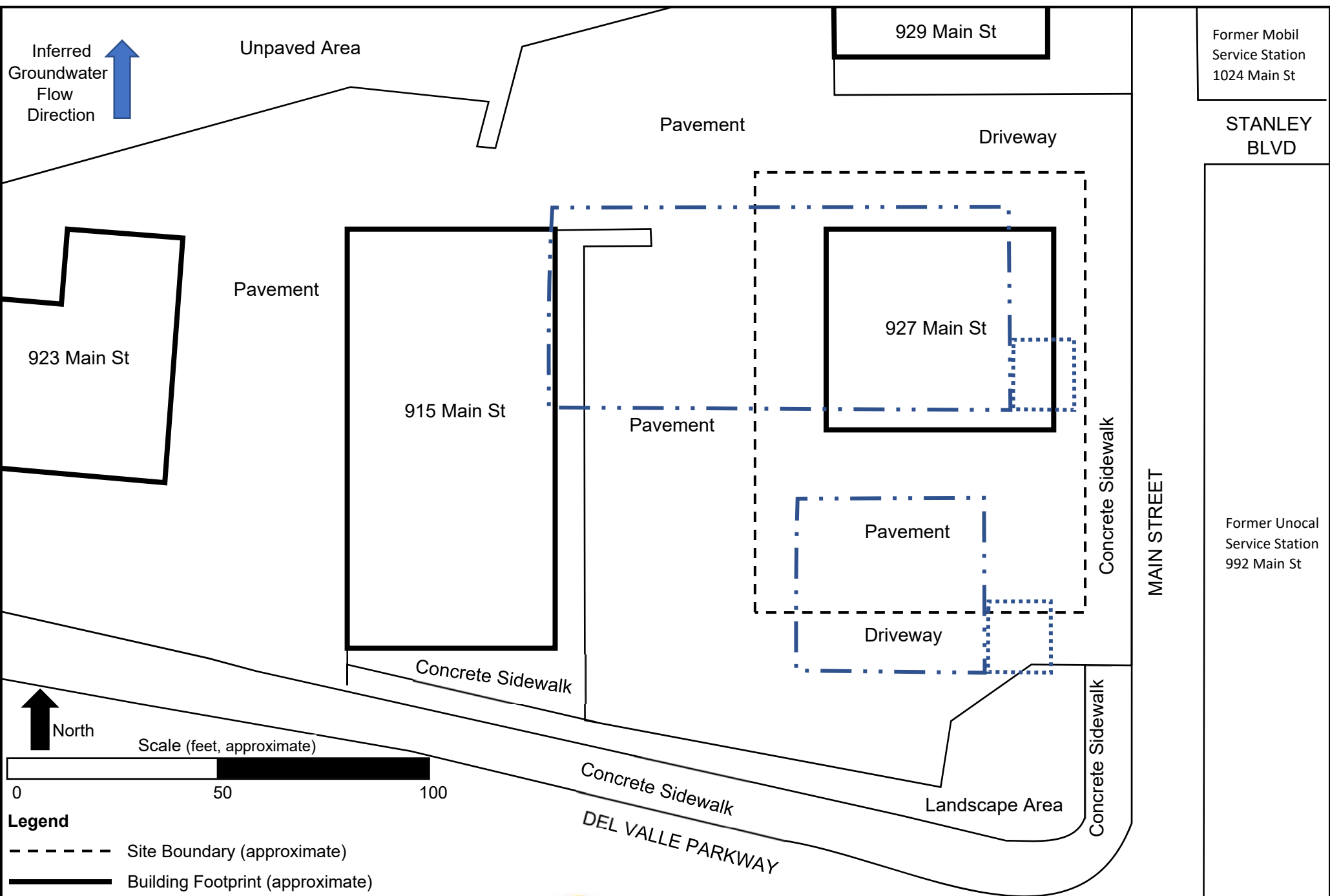
927 Main Street, Pleasanton, Alameda County, California

PN: 01-2016-1300-001

Date: July 25, 2017

EP: Lita Freeman

Figure 1



Inferred Groundwater Flow Direction

North

Scale (feet, approximate)
 0 50 100

- Legend**
- - - - Site Boundary (approximate)
 - Building Footprint (approximate)
 - . . . Former Building Footprint (approximate)
 - Former Dispenser Canopy Footprint (approximate)



Site Plan

Soil and Groundwater Investigation Report Addendum

927 Main Street, Pleasanton, Alameda County, California

PN: 01-2016-1300-001
 Date: July 25, 2017
 EP: Lita Freeman

Figure 2

Former Mobil Service Station
 1024 Main St

STANLEY BLVD

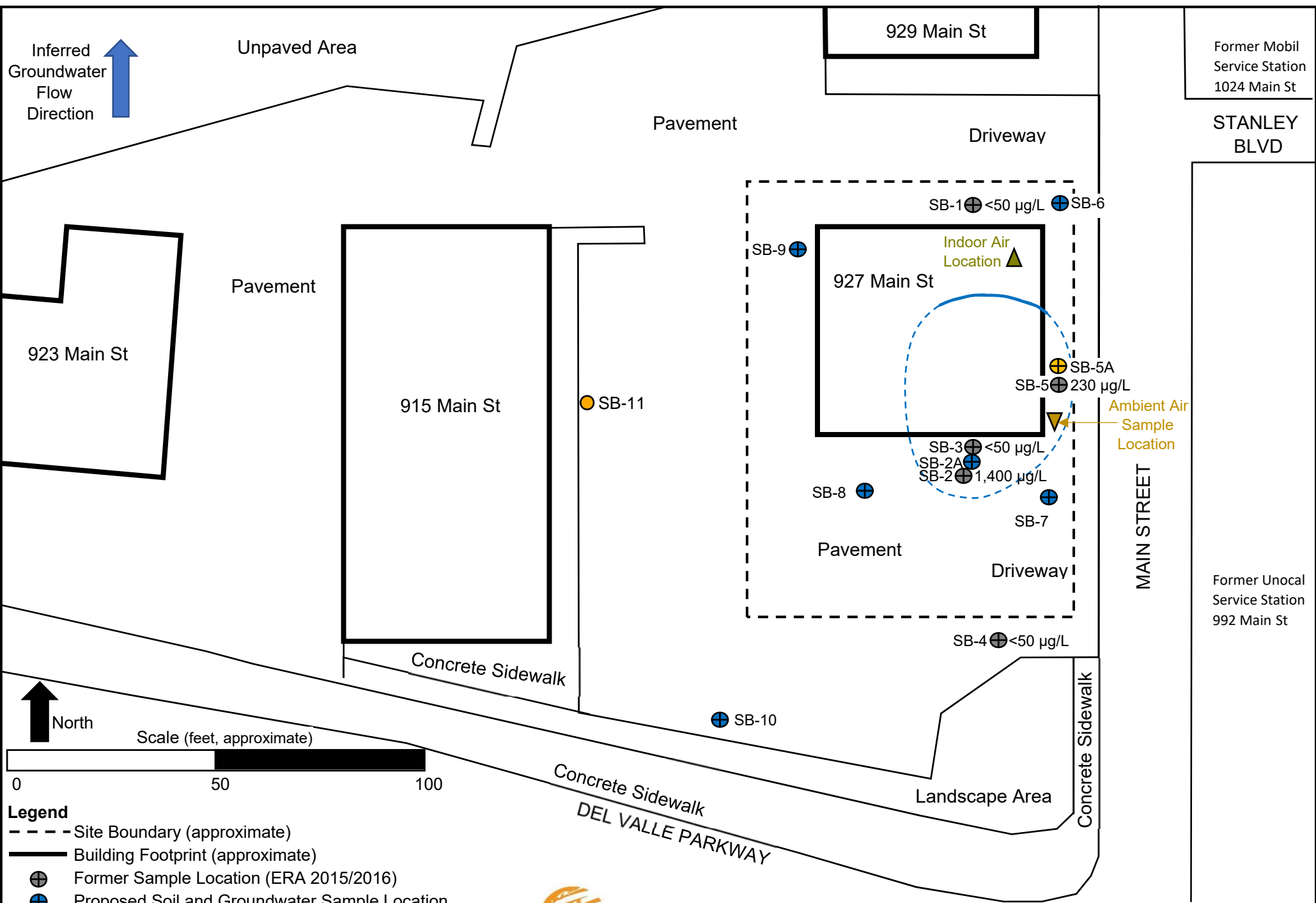
Former Unocal Service Station
 992 Main St

MAIN STREET

DEL VALLE PARKWAY

ATTACHMENT 1

Documents Related to Investigation by ATC Associates, Inc.



- Legend**
- - - Site Boundary (approximate)
 - ▭ Building Footprint (approximate)
 - ⊕ Former Sample Location (ERA 2015/2016)
 - ⊕ Proposed Soil and Groundwater Sample Location
 - ⊕ Proposed Soil Gas Sample Location
 - Isoconcentration Contour - Gasoline Range Organics - micrograms per liter ($\mu\text{g/L}$) - (dashed where inferred)



Site Plan with Proposed Sampling Locations	PN: 01-2016-1300-001
Soil and Groundwater Investigation Work Plan	Date: April 14, 2017
927 Main Street, Pleasanton, Alameda County, California	EP: Lita Freeman
	Figure 3



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1706926

Report Created for: ATC Group Services

2400 Camino Ramon, Suite 360
San Ramon, CA 94583

Project Contact: Bryan Campbell

Project P.O.:

Project Name: Pleasanton PhII

Project Received: 06/19/2017

Analytical Report reviewed & approved for release on 06/29/2017 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: ATC Group Services
Project: Pleasanton PhII
WorkOrder: 1706926

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
ERS	External reference sample. Second source calibration verification.
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)



Glossary of Terms & Qualifier Definitions

Client: ATC Group Services
Project: Pleasanton PhII
WorkOrder: 1706926

Analytical Qualifiers

a3 Sample diluted due to high organic content.
a10 Reporting limit changed due to variable volume of air that pumped through each filter / sorbent tube.
b1 Aqueous sample that contains greater than ~1 vol. % sediment
e7 Oil range compounds are significant

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.



Case Narrative

Client: ATC Group Services
Project: Pleasanton PhII

Work Order: 1706926
June 29, 2017

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/20/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10-2.5'	1706926-002A	Soil	06/19/2017 09:55	GC10	140653

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	06/22/2017 06:23
Ethylbenzene	ND	0.0050	1	06/22/2017 06:23
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/22/2017 06:23
Naphthalene	ND	0.0050	1	06/22/2017 06:23
Toluene	ND	0.0050	1	06/22/2017 06:23
Xylenes, Total	ND	0.0050	1	06/22/2017 06:23

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	116	70-130	06/22/2017 06:23
Toluene-d8	128	70-130	06/22/2017 06:23
4-BFB	99	70-130	06/22/2017 06:23
Benzene-d6	94	60-140	06/22/2017 06:23
Ethylbenzene-d10	107	60-140	06/22/2017 06:23
1,2-DCB-d4	76	60-140	06/22/2017 06:23

Analyst(s): JEM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10-7'	1706926-003A	Soil	06/19/2017 10:00	GC10	140653

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	06/21/2017 03:09
Ethylbenzene	ND	0.0050	1	06/21/2017 03:09
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/21/2017 03:09
Naphthalene	ND	0.0050	1	06/21/2017 03:09
Toluene	ND	0.0050	1	06/21/2017 03:09
Xylenes, Total	ND	0.0050	1	06/21/2017 03:09

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	117	70-130	06/21/2017 03:09
Toluene-d8	128	70-130	06/21/2017 03:09
4-BFB	101	70-130	06/21/2017 03:09
Benzene-d6	95	60-140	06/21/2017 03:09
Ethylbenzene-d10	109	60-140	06/21/2017 03:09
1,2-DCB-d4	77	60-140	06/21/2017 03:09

Analyst(s): KF



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/23/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10-GW	1706926-004B	Water	06/19/2017 11:30	GC18	140934

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	06/23/2017 04:29
Ethylbenzene	ND	0.50	1	06/23/2017 04:29
Methyl-t-butyl ether (MTBE)	ND	0.50	1	06/23/2017 04:29
Naphthalene	ND	0.50	1	06/23/2017 04:29
Toluene	ND	0.50	1	06/23/2017 04:29
Xylenes, Total	ND	0.50	1	06/23/2017 04:29

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	120	70-130	06/23/2017 04:29
Toluene-d8	98	70-130	06/23/2017 04:29
4-BFB	111	70-130	06/23/2017 04:29

Analyst(s): JEM

Analytical Comments: b1



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/20/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10-2.5'	1706926-002A	Soil	06/19/2017 09:55	GC19	140651

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/22/2017 06:52
MTBE	---	0.050	1	06/22/2017 06:52
Benzene	---	0.0050	1	06/22/2017 06:52
Toluene	---	0.0050	1	06/22/2017 06:52
Ethylbenzene	---	0.0050	1	06/22/2017 06:52
Xylenes	---	0.015	1	06/22/2017 06:52
Surrogates	REC (%)	Limits		
2-Fluorotoluene	82	62-126		06/22/2017 06:52

Analyst(s): HD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10-7'	1706926-003A	Soil	06/19/2017 10:00	GC19	140651

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	06/23/2017 03:56
MTBE	---	0.050	1	06/23/2017 03:56
Benzene	---	0.0050	1	06/23/2017 03:56
Toluene	---	0.0050	1	06/23/2017 03:56
Ethylbenzene	---	0.0050	1	06/23/2017 03:56
Xylenes	---	0.015	1	06/23/2017 03:56
Surrogates	REC (%)	Limits		
2-Fluorotoluene	82	62-126		06/23/2017 03:56

Analyst(s): HD



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/22/17
Project: Pleasanton PhII

WorkOrder: 1706926
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-10-GW	1706926-004A	Water	06/19/2017 11:30	GC3	140940

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	06/22/2017 20:14
MTBE	---	5.0	1	06/22/2017 20:14
Benzene	---	0.50	1	06/22/2017 20:14
Toluene	---	0.50	1	06/22/2017 20:14
Ethylbenzene	---	0.50	1	06/22/2017 20:14
Xylenes	---	1.5	1	06/22/2017 20:14

Surrogates	REC (%)	Limits	
aaa-TFT	100	89-115	06/22/2017 20:14

Analyst(s): HD

Analytical Comments: b1



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/27/17
Project: Pleasanton PhII

WorkOrder: 1706926
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-11	1706926-001A	SoilGas	06/19/2017 14:50	GC26	141127

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.56	23.05	HK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	06/27/2017 12:42

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11-H	1706926-001B	SoilGas	06/19/2017 14:50	GC26	141127

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.14	26.26	HK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	06/27/2017 12:55

 Angela Rydelius, Lab Manager



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/27/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11	1706926-001A	SoilGas	06/19/2017 14:50	GC24	141287

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.56	23.05	AK

Analytes	Result	RL	DF	Date Analyzed
Acetone	65	60	1	06/27/2017 20:20
Acrolein	31	5.8	1	06/27/2017 20:20
Acrylonitrile	ND	1.1	1	06/27/2017 20:20
tert-Amyl methyl ether (TAME)	ND	2.1	1	06/27/2017 20:20
Benzene	ND	1.6	1	06/27/2017 20:20
Benzyl chloride	ND	2.6	1	06/27/2017 20:20
Bromodichloromethane	ND	3.5	1	06/27/2017 20:20
Bromoform	ND	5.2	1	06/27/2017 20:20
Bromomethane	3.1	2.0	1	06/27/2017 20:20
1,3-Butadiene	ND	1.1	1	06/27/2017 20:20
2-Butanone (MEK)	ND	75	1	06/27/2017 20:20
t-Butyl alcohol (TBA)	71	31	1	06/27/2017 20:20
Carbon Disulfide	ND	1.6	1	06/27/2017 20:20
Carbon Tetrachloride	ND	3.2	1	06/27/2017 20:20
Chlorobenzene	ND	2.4	1	06/27/2017 20:20
Chloroethane	ND	1.3	1	06/27/2017 20:20
Chloroform	ND	2.4	1	06/27/2017 20:20
Chloromethane	ND	1.0	1	06/27/2017 20:20
Cyclohexane	ND	18	1	06/27/2017 20:20
Dibromochloromethane	ND	4.4	1	06/27/2017 20:20
1,2-Dibromo-3-chloropropane	ND	0.12	1	06/27/2017 20:20
1,2-Dibromoethane (EDB)	ND	3.9	1	06/27/2017 20:20
1,2-Dichlorobenzene	ND	3.0	1	06/27/2017 20:20
1,3-Dichlorobenzene	ND	3.0	1	06/27/2017 20:20
1,4-Dichlorobenzene	ND	3.0	1	06/27/2017 20:20
Dichlorodifluoromethane	ND	2.5	1	06/27/2017 20:20
1,1-Dichloroethane	ND	2.0	1	06/27/2017 20:20
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	06/27/2017 20:20
1,1-Dichloroethene	ND	2.0	1	06/27/2017 20:20
cis-1,2-Dichloroethene	ND	2.0	1	06/27/2017 20:20
trans-1,2-Dichloroethene	ND	2.0	1	06/27/2017 20:20
1,2-Dichloropropane	ND	2.4	1	06/27/2017 20:20
cis-1,3-Dichloropropene	ND	2.3	1	06/27/2017 20:20

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 Angela Rydelius, Lab Manager



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/27/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11	1706926-001A	SoilGas	06/19/2017 14:50	GC24	141287

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.56	23.05	AK

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	06/27/2017 20:20
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	06/27/2017 20:20
Diisopropyl ether (DIPE)	ND	2.1	1	06/27/2017 20:20
1,4-Dioxane	ND	1.8	1	06/27/2017 20:20
Ethanol	ND	96	1	06/27/2017 20:20
Ethyl acetate	ND	1.8	1	06/27/2017 20:20
Ethyl tert-butyl ether (ETBE)	6.4	2.1	1	06/27/2017 20:20
Ethylbenzene	ND	2.2	1	06/27/2017 20:20
4-Ethyltoluene	ND	2.5	1	06/27/2017 20:20
Freon 113	ND	3.9	1	06/27/2017 20:20
Heptane	ND	21	1	06/27/2017 20:20
Hexachlorobutadiene	ND	5.4	1	06/27/2017 20:20
Hexane	ND	18	1	06/27/2017 20:20
2-Hexanone	ND	2.1	1	06/27/2017 20:20
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	06/27/2017 20:20
Methyl-t-butyl ether (MTBE)	ND	1.8	1	06/27/2017 20:20
Methylene chloride	ND	8.8	1	06/27/2017 20:20
Methyl methacrylate	ND	2.1	1	06/27/2017 20:20
Naphthalene	ND	5.3	1	06/27/2017 20:20
Propene	ND	88	1	06/27/2017 20:20
Styrene	ND	2.2	1	06/27/2017 20:20
1,1,1,2-Tetrachloroethane	ND	3.5	1	06/27/2017 20:20
1,1,2,2-Tetrachloroethane	ND	3.5	1	06/27/2017 20:20
Tetrachloroethene	8.9	3.4	1	06/27/2017 20:20
Tetrahydrofuran	5.6	3.0	1	06/27/2017 20:20
Toluene	3.4	1.9	1	06/27/2017 20:20
1,2,4-Trichlorobenzene	ND	3.8	1	06/27/2017 20:20
1,1,1-Trichloroethane	ND	2.8	1	06/27/2017 20:20
1,1,2-Trichloroethane	ND	2.8	1	06/27/2017 20:20
Trichloroethene	ND	2.8	1	06/27/2017 20:20
Trichlorofluoromethane	ND	2.8	1	06/27/2017 20:20
1,2,4-Trimethylbenzene	2.8	2.5	1	06/27/2017 20:20
1,3,5-Trimethylbenzene	8.7	2.5	1	06/27/2017 20:20

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 Angela Rydelius, Lab Manager



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/27/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11	1706926-001A	SoilGas	06/19/2017 14:50	GC24	141287

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.56	23.05	AK

Analytes	Result	RL	DF	Date Analyzed
Vinyl Acetate	ND	18	1	06/27/2017 20:20
Vinyl Chloride	ND	1.3	1	06/27/2017 20:20
Xylenes, Total	ND	6.6	1	06/27/2017 20:20
Surrogates	REC (%)	Limits		
1,2-DCA-d4	97	70-130		06/27/2017 20:20
Toluene-d8	95	70-130		06/27/2017 20:20
4-BFB	91	70-130		06/27/2017 20:20

 Angela Rydelius, Lab Manager



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/20/17
Project: Pleasanton PhII

WorkOrder: 1706926
Extraction Method: TO17
Analytical Method: TO17
Unit: µg/m³

Volatile Organic Compounds by TO17

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11-N	1706926-001C	Sorbent Tube	06/19/2017 14:50	GC37	140756

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	3.8	1	06/20/2017 19:35

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	107	70-130	06/20/2017 19:35

Analyst(s): KBO **Analytical Comments:** a10

 Angela Rydelius, Lab Manager



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/20/17
Project: Pleasanton PhII

WorkOrder: 1706926
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-10-2.5'	1706926-002A	Soil	06/19/2017 09:55	GC9b	140692

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2017 21:51
TPH-Motor Oil (C18-C36)	13	5.0	1	06/20/2017 21:51

Surrogates	REC (%)	Limits	Date Analyzed
C9	89	78-109	06/20/2017 21:51

Analyst(s): TK Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10-7'	1706926-003A	Soil	06/19/2017 10:00	GC9b	140692

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2017 20:34
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2017 20:34

Surrogates	REC (%)	Limits	Date Analyzed
C9	88	78-109	06/20/2017 20:34

Analyst(s): TK



Analytical Report

Client: ATC Group Services
Date Received: 6/19/17 17:00
Date Prepared: 6/20/17
Project: Pleasanton PhII

WorkOrder: 1706926
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-10-GW	1706926-004A	Water	06/19/2017 11:30	GC39A	140648

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	06/21/2017 00:56
TPH-Motor Oil (C18-C36)	ND	500	1	06/21/2017 00:56

Surrogates	REC (%)	Limits	Date Analyzed
C9	102	66-138	06/21/2017 00:56

Analyst(s): TK **Analytical Comments:** a3,b1



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17 - 6/20/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC10, GC28
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-140653
 1706926-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	0.980	0.10	1	-	98	72-156
tert-Amyl methyl ether (TAME)	ND	0.0363	0.0050	0.050	-	73	53-116
Benzene	ND	0.0425	0.0050	0.050	-	85	63-137
Bromobenzene	ND	0.0448	0.0050	0.050	-	90	68-126
Bromochloromethane	ND	0.0453	0.0050	0.050	-	91	72-126
Bromodichloromethane	ND	0.0374	0.0050	0.050	-	75	61-127
Bromoform	ND	0.0304	0.0050	0.050	-	61	49-100
Bromomethane	ND	0.0632	0.0050	0.050	-	126	40-161
2-Butanone (MEK)	ND	0.155	0.020	0.20	-	77	43-157
t-Butyl alcohol (TBA)	ND	0.152	0.050	0.20	-	76	41-135
n-Butyl benzene	ND	0.0667	0.0050	0.050	-	133	102-160
sec-Butyl benzene	ND	0.0664	0.0050	0.050	-	133	74-168
tert-Butyl benzene	ND	0.0563	0.0050	0.050	-	113	88-157
Carbon Disulfide	ND	0.0528	0.0050	0.050	-	106	42-151
Carbon Tetrachloride	ND	0.0449	0.0050	0.050	-	90	49-149
Chlorobenzene	ND	0.0434	0.0050	0.050	-	87	77-121
Chloroethane	ND	0.0464	0.0050	0.050	-	93	41-134
Chloroform	ND	0.0432	0.0050	0.050	-	86	69-133
Chloromethane	ND	0.0403	0.0050	0.050	-	81	31-119
2-Chlorotoluene	ND	0.0521	0.0050	0.050	-	104	79-139
4-Chlorotoluene	ND	0.0497	0.0050	0.050	-	99	77-138
Dibromochloromethane	ND	0.0348	0.0050	0.050	-	70	58-121
1,2-Dibromo-3-chloropropane	ND	0.0127	0.0040	0.020	-	64	39-115
1,2-Dibromoethane (EDB)	ND	0.0403	0.0040	0.050	-	81	67-119
Dibromomethane	ND	0.0393	0.0050	0.050	-	79	66-117
1,2-Dichlorobenzene	ND	0.0400	0.0050	0.050	-	80	59-109
1,3-Dichlorobenzene	ND	0.0452	0.0050	0.050	-	90	75-130
1,4-Dichlorobenzene	ND	0.0446	0.0050	0.050	-	89	71-122
Dichlorodifluoromethane	ND	0.0206	0.0050	0.050	-	41, F2	43-68
1,1-Dichloroethane	ND	0.0433	0.0050	0.050	-	87	62-139
1,2-Dichloroethane (1,2-DCA)	ND	0.0395	0.0040	0.050	-	79	58-135
1,1-Dichloroethene	ND	0.0459	0.0050	0.050	-	92	42-145
cis-1,2-Dichloroethene	ND	0.0431	0.0050	0.050	-	86	67-129
trans-1,2-Dichloroethene	ND	0.0435	0.0050	0.050	-	87	54-139
1,2-Dichloropropane	ND	0.0408	0.0050	0.050	-	82	68-125
1,3-Dichloropropane	ND	0.0394	0.0050	0.050	-	79	65-125
2,2-Dichloropropane	ND	0.0468	0.0050	0.050	-	94	45-151

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Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17 - 6/20/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC10, GC28
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-140653
 1706926-002AMS/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	0.0433	0.0050	0.050	-	87	64-138
cis-1,3-Dichloropropene	ND	0.0395	0.0050	0.050	-	79	62-134
trans-1,3-Dichloropropene	ND	0.0368	0.0050	0.050	-	74	59-128
Diisopropyl ether (DIPE)	ND	0.0401	0.0050	0.050	-	80	52-129
Ethylbenzene	ND	0.0452	0.0050	0.050	-	90	74-142
Ethyl tert-butyl ether (ETBE)	ND	0.0390	0.0050	0.050	-	78	53-125
Freon 113	ND	0.0430	0.0050	0.050	-	86	51-126
Hexachlorobutadiene	ND	0.0586	0.0050	0.050	-	117	70-158
Hexachloroethane	ND	0.0436	0.0050	0.050	-	87	80-160
2-Hexanone	ND	0.0287	0.0050	0.050	-	57	41-116
Isopropylbenzene	ND	0.0570	0.0050	0.050	-	114	77-146
4-Isopropyl toluene	ND	0.0589	0.0050	0.050	-	118	96-159
Methyl-t-butyl ether (MTBE)	ND	0.0380	0.0050	0.050	-	76	58-122
Methylene chloride	ND	0.0462	0.0050	0.050	-	92	58-135
4-Methyl-2-pentanone (MIBK)	ND	0.0302	0.0050	0.050	-	60	40-112
Naphthalene	ND	0.0195	0.0050	0.050	-	39	23-73
n-Propyl benzene	ND	0.0574	0.0050	0.050	-	115	82-160
Styrene	ND	0.0429	0.0050	0.050	-	86	68-124
1,1,1,2-Tetrachloroethane	ND	0.0453	0.0050	0.050	-	91	70-128
1,1,2,2-Tetrachloroethane	ND	0.0333	0.0050	0.050	-	67	57-111
Tetrachloroethene	ND	0.0504	0.0050	0.050	-	101	73-145
Toluene	ND	0.0428	0.0050	0.050	-	86	76-130
1,2,3-Trichlorobenzene	ND	0.0271	0.0050	0.050	-	54	43-72
1,2,4-Trichlorobenzene	ND	0.0349	0.0050	0.050	-	70	47-95
1,1,1-Trichloroethane	ND	0.0451	0.0050	0.050	-	90	60-141
1,1,2-Trichloroethane	ND	0.0389	0.0050	0.050	-	78	62-118
Trichloroethene	ND	0.0466	0.0050	0.050	-	93	72-132
Trichlorofluoromethane	ND	0.0456	0.0050	0.050	-	91	43-135
1,2,3-Trichloropropane	ND	0.0401	0.0050	0.050	-	80	57-122
1,2,4-Trimethylbenzene	ND	0.0506	0.0050	0.050	-	101	81-152
1,3,5-Trimethylbenzene	ND	0.0542	0.0050	0.050	-	108	78-160
Vinyl Chloride	ND	0.0440	0.0050	0.050	-	88	42-131
Xylenes, Total	ND	0.134	0.0050	0.15	-	89	70-130

(Cont.)



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17 - 6/20/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC10, GC28
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-140653
 1706926-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.1297	0.129		0.12	104	104	70-130
Toluene-d8	0.1437	0.148		0.12	115	118	70-130
4-BFB	0.01163	0.0118		0.012	93	94	70-130
Benzene-d6	0.08548	0.0854		0.10	85	85	60-140
Ethylbenzene-d10	0.1049	0.105		0.10	105	105	60-140
1,2-DCB-d4	0.07659	0.0805		0.10	77	80	60-140



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17 - 6/20/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC10, GC28
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-140653
 1706926-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1.18	1.18	1	ND	118	118	72-156	0	20
tert-Amyl methyl ether (TAME)	0.0396	0.0394	0.050	ND	79	79	53-116	0	20
Benzene	0.0436	0.0441	0.050	ND	87	88	63-137	1.12	20
Bromobenzene	0.0368	0.0374	0.050	ND	74	75	68-126	1.75	20
Bromochloromethane	0.0430	0.0434	0.050	ND	86	87	72-126	0.972	20
Bromodichloromethane	0.0417	0.0421	0.050	ND	83	84	61-127	0.805	20
Bromoform	0.0329	0.0316	0.050	ND	66	63	49-100	4.24	20
Bromomethane	0.0516	0.0525	0.050	ND	103	105	40-161	1.81	20
2-Butanone (MEK)	0.199	0.193	0.20	ND	100	96	43-157	3.22	20
t-Butyl alcohol (TBA)	0.178	0.175	0.20	ND	89	88	41-135	1.68	20
n-Butyl benzene	0.0546	0.0560	0.050	ND	109	112	102-160	2.40	20
sec-Butyl benzene	0.0531	0.0556	0.050	ND	106	111	74-168	4.67	20
tert-Butyl benzene	0.0479	0.0505	0.050	ND	96	101	88-157	5.13	20
Carbon Disulfide	0.0391	0.0400	0.050	ND	78	80	42-151	2.29	20
Carbon Tetrachloride	0.0413	0.0420	0.050	ND	83	84	49-149	1.71	20
Chlorobenzene	0.0399	0.0403	0.050	ND	80	81	77-121	1.16	20
Chloroethane	0.0519	0.0527	0.050	ND	104	105	41-134	1.49	20
Chloroform	0.0442	0.0448	0.050	ND	89	90	69-133	1.34	20
Chloromethane	0.0491	0.0498	0.050	ND	98	100	31-119	1.47	20
2-Chlorotoluene	0.0437	0.0449	0.050	ND	87	90	79-139	2.63	20
4-Chlorotoluene	0.0401	0.0417	0.050	ND	80	83	77-138	4.03	20
Dibromochloromethane	0.0376	0.0363	0.050	ND	75	73	58-121	3.45	20
1,2-Dibromo-3-chloropropane	0.0126	0.0124	0.020	ND	63	62	39-115	1.69	20
1,2-Dibromoethane (EDB)	0.0399	0.0405	0.050	ND	80	81	67-119	1.47	20
Dibromomethane	0.0429	0.0430	0.050	ND	86	86	66-117	0	20
1,2-Dichlorobenzene	0.0353	0.0361	0.050	ND	71	72	59-109	2.14	20
1,3-Dichlorobenzene	0.0418	0.0426	0.050	ND	84	85	75-130	1.70	20
1,4-Dichlorobenzene	0.0394	0.0406	0.050	ND	79	81	71-122	2.85	20
Dichlorodifluoromethane	0.0198	0.0209	0.050	ND	40,F1	42,F1	43-68	5.26	20
1,1-Dichloroethane	0.0450	0.0453	0.050	ND	90	91	62-139	0.602	20
1,2-Dichloroethane (1,2-DCA)	0.0456	0.0461	0.050	ND	91	92	58-135	1.06	20
1,1-Dichloroethene	0.0392	0.0400	0.050	ND	78	80	42-145	1.92	20
cis-1,2-Dichloroethene	0.0429	0.0430	0.050	ND	86	86	67-129	0	20
trans-1,2-Dichloroethene	0.0414	0.0424	0.050	ND	83	85	54-139	2.41	20
1,2-Dichloropropane	0.0445	0.0443	0.050	ND	89	89	68-125	0	20
1,3-Dichloropropane	0.0425	0.0426	0.050	ND	85	85	65-125	0	20
2,2-Dichloropropane	0.0432	0.0428	0.050	ND	86	86	45-151	0	20

(Cont.)



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17 - 6/20/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC10, GC28
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-140653
 1706926-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloropropene	0.0418	0.0428	0.050	ND	84	86	64-138	2.22	20
cis-1,3-Dichloropropene	0.0428	0.0433	0.050	ND	86	87	62-134	1.14	20
trans-1,3-Dichloropropene	0.0439	0.0440	0.050	ND	88	88	59-128	0	20
Diisopropyl ether (DIPE)	0.0448	0.0452	0.050	ND	90	90	52-129	0	20
Ethylbenzene	0.0435	0.0449	0.050	ND	87	90	74-142	3.07	20
Ethyl tert-butyl ether (ETBE)	0.0442	0.0444	0.050	ND	88	89	53-125	0.439	20
Freon 113	0.0343	0.0350	0.050	ND	69	70	51-126	1.99	20
Hexachlorobutadiene	0.0439	0.0438	0.050	ND	88	88	70-158	0	20
Hexachloroethane	0.0467	0.0479	0.050	ND	93	96	80-160	2.43	20
2-Hexanone	0.0356	0.0356	0.050	ND	71	71	41-116	0	20
Isopropylbenzene	0.0437	0.0453	0.050	ND	87	91	77-146	3.59	20
4-Isopropyl toluene	0.0456	0.0472	0.050	ND	91,F1	94,F1	96-159	3.37	20
Methyl-t-butyl ether (MTBE)	0.0444	0.0446	0.050	ND	89	89	58-122	0	20
Methylene chloride	0.0466	0.0471	0.050	ND	93	94	58-135	1.22	20
4-Methyl-2-pentanone (MIBK)	0.0384	0.0377	0.050	ND	77	75	40-112	1.87	20
Naphthalene	0.0222	0.0217	0.050	ND	44	43	23-73	2.17	20
n-Propyl benzene	0.0487	0.0515	0.050	ND	97	103	82-160	5.45	20
Styrene	0.0380	0.0390	0.050	ND	76	78	68-124	2.49	20
1,1,1,2-Tetrachloroethane	0.0404	0.0403	0.050	ND	81	81	70-128	0	20
1,1,2,2-Tetrachloroethane	0.0394	0.0390	0.050	ND	79	78	57-111	1.08	20
Tetrachloroethene	0.0395	0.0402	0.050	ND	79	81	73-145	1.88	20
Toluene	0.0409	0.0416	0.050	ND	82	83	76-130	1.70	20
1,2,3-Trichlorobenzene	0.0245	0.0243	0.050	ND	49	49	43-72	0	20
1,2,4-Trichlorobenzene	0.0298	0.0294	0.050	ND	60	59	47-95	1.69	20
1,1,1-Trichloroethane	0.0422	0.0429	0.050	ND	84	86	60-141	1.65	20
1,1,2-Trichloroethane	0.0408	0.0412	0.050	ND	82	82	62-118	0	20
Trichloroethene	0.0400	0.0410	0.050	ND	80	82	72-132	2.37	20
Trichlorofluoromethane	0.0369	0.0377	0.050	ND	74	75	43-135	2.02	20
1,2,3-Trichloropropane	0.0445	0.0438	0.050	ND	89	87	57-122	1.75	20
1,2,4-Trimethylbenzene	0.0470	0.0481	0.050	ND	94	96	81-152	2.37	20
1,3,5-Trimethylbenzene	0.0488	0.0500	0.050	ND	98	100	78-160	2.29	20
Vinyl Chloride	0.0492	0.0509	0.050	ND	98	102	42-131	3.43	20
Xylenes, Total	0.123	0.128	0.15	ND	82	85	70-130	4.23	20

(Cont.)



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17 - 6/20/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC10, GC28
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140653
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-140653
 1706926-002AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Surrogate Recovery									
Dibromofluoromethane	0.153	0.154	0.12		123	123	70-130	0	20
Toluene-d8	0.157	0.157	0.12		126	125	70-130	0.288	20
4-BFB	0.0127	0.0127	0.012		102	102	70-130	0	20
Benzene-d6	0.0912	0.0919	0.10		91	92	60-140	0.863	20
Ethylbenzene-d10	0.0975	0.0994	0.10		97	99	60-140	1.99	20
1,2-DCB-d4	0.0735	0.0746	0.10		73	75	60-140	1.48	20



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/22/17
Date Analyzed: 6/22/17
Instrument: GC16
Matrix: Water
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140934
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-140934

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.50	-	-	-
Benzene	ND	0.50	-	-	-
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	2.0	-	-	-
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	0.50	-	-	-
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	0.50	-	-	-
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	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
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	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-

(Cont.)



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/22/17
Date Analyzed: 6/22/17
Instrument: GC16
Matrix: Water
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140934
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-140934

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.50	-	-	-
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	0.50	-	-	-
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	0.50	-	-	-
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	0.50	-	-	-
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	-	-	-
Surrogate Recovery					
Dibromofluoromethane	27.52		25	110	70-130
Toluene-d8	25.46		25	102	70-130
4-BFB	2.85		2.5	114	70-130

(Cont.)



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/22/17
Date Analyzed: 6/22/17
Instrument: GC16
Matrix: Water
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140934
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-140934

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	145	149	200	72	74	46-155	2.93	20
tert-Amyl methyl ether (TAME)	8.65	8.86	10	86	89	54-140	2.39	20
Benzene	9.83	9.89	10	98	99	47-158	0.656	20
Bromobenzene	9.55	9.13	10	95	91	50-155	4.48	20
Bromochloromethane	9.04	9.14	10	90	91	48-160	1.03	20
Bromodichloromethane	9.06	9.17	10	91	92	60-156	1.24	20
Bromoform	8.87	9.06	10	89	91	43-149	2.11	20
Bromomethane	10.7	10.7	10	107	107	61-159	0	20
2-Butanone (MEK)	32.8	33.4	40	82	83	61-124	1.82	20
t-Butyl alcohol (TBA)	27.9	28.3	40	70	71	42-140	1.52	20
n-Butyl benzene	10.4	10.6	10	104	106	74-138	1.78	20
sec-Butyl benzene	10.4	10.2	10	104	102	72-142	2.07	20
tert-Butyl benzene	10.1	9.83	10	101	98	74-140	3.18	20
Carbon Disulfide	9.76	9.89	10	98	99	64-127	1.41	20
Carbon Tetrachloride	10.1	10.1	10	101	101	61-158	0	20
Chlorobenzene	9.09	9.17	10	91	92	43-157	0.878	20
Chloroethane	10.3	10.3	10	103	103	50-127	0	20
Chloroform	9.52	9.64	10	95	96	56-154	1.25	20
Chloromethane	9.73	9.81	10	97	98	41-132	0.802	20
2-Chlorotoluene	10.5	10.1	10	105	101	50-155	3.21	20
4-Chlorotoluene	10.2	9.86	10	102	99	53-153	3.02	20
Dibromochloromethane	9.02	9.14	10	90	91	49-156	1.38	20
1,2-Dibromo-3-chloropropane	3.45	3.58	4	86	90	46-149	3.69	20
1,2-Dibromoethane (EDB)	8.65	8.75	10	86	88	44-155	1.18	20
Dibromomethane	8.72	8.85	10	87	89	50-157	1.44	20
1,2-Dichlorobenzene	9.26	9.36	10	93	94	48-156	1.08	20
1,3-Dichlorobenzene	9.93	10.0	10	99	100	49-159	1.05	20
1,4-Dichlorobenzene	9.49	9.59	10	95	96	51-151	1.02	20
Dichlorodifluoromethane	9.15	9.40	10	92	94	61-117	2.68	20
1,1-Dichloroethane	9.53	9.68	10	95	97	53-153	1.59	20
1,2-Dichloroethane (1,2-DCA)	8.79	8.95	10	88	89	66-125	1.77	20
1,1-Dichloroethene	9.51	9.56	10	95	96	47-149	0.585	20
cis-1,2-Dichloroethene	9.26	9.32	10	93	93	54-155	0	20
trans-1,2-Dichloroethene	9.64	9.72	10	96	97	46-151	0.780	20
1,2-Dichloropropane	9.38	9.49	10	94	95	54-153	1.19	20
1,3-Dichloropropane	8.63	8.79	10	86	88	49-150	1.90	20
2,2-Dichloropropane	9.84	9.89	10	98	99	74-147	0.484	20
1,1-Dichloropropene	9.76	9.76	10	98	98	54-150	0	20
cis-1,3-Dichloropropene	9.16	9.27	10	92	93	55-159	1.24	20

(Cont.)



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/22/17
Date Analyzed: 6/22/17
Instrument: GC16
Matrix: Water
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140934
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS/LCSD-140934

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	9.24	9.35	10	92	93	74-131	1.17	20
Diisopropyl ether (DIPE)	9.25	9.33	10	92	93	57-136	0.878	20
Ethylbenzene	9.32	9.35	10	93	94	60-152	0.300	20
Ethyl tert-butyl ether (ETBE)	9.12	9.28	10	91	93	55-137	1.76	20
Freon 113	9.90	9.89	10	99	99	47-138	0	20
Hexachlorobutadiene	9.60	9.37	10	96	94	66-160	2.42	20
Hexachloroethane	10.1	10.2	10	101	102	75-130	1.33	20
2-Hexanone	7.88	8.19	10	79	82	70-115	3.79	20
Isopropylbenzene	9.32	9.25	10	93	92	59-156	0.784	20
4-Isopropyl toluene	10.2	10.0	10	102	100	75-138	1.58	20
Methyl-t-butyl ether (MTBE)	8.64	8.81	10	86	88	53-139	1.90	20
Methylene chloride	8.26	8.32	10	83	83	66-127	0	20
4-Methyl-2-pentanone (MIBK)	7.81	8.08	10	78	81	42-153	3.39	20
Naphthalene	8.45	8.39	10	84	84	66-127	0	20
n-Propyl benzene	10.4	9.97	10	104	100	54-155	3.87	20
Styrene	9.47	9.42	10	95	94	51-152	0.464	20
1,1,1,2-Tetrachloroethane	9.34	9.46	10	93	95	58-159	1.28	20
1,1,2,2-Tetrachloroethane	8.39	8.42	10	84	84	51-150	0	20
Tetrachloroethene	9.09	9.06	10	91	91	55-145	0	20
Toluene	9.13	9.23	10	91	92	52-137	1.09	20
1,2,3-Trichlorobenzene	8.73	8.75	10	87	87	70-136	0	20
1,2,4-Trichlorobenzene	9.30	9.13	10	93	91	74-137	1.88	20
1,1,1-Trichloroethane	9.66	9.68	10	97	97	57-156	0	20
1,1,2-Trichloroethane	8.54	8.60	10	85	86	51-150	0.622	20
Trichloroethene	9.43	9.57	10	94	96	43-157	1.39	20
Trichlorofluoromethane	9.98	10.0	10	100	100	50-147	0	20
1,2,3-Trichloropropane	8.56	8.54	10	86	85	41-152	0.144	20
1,2,4-Trimethylbenzene	10.4	10.2	10	104	102	57-157	1.63	20
1,3,5-Trimethylbenzene	10.5	10.2	10	105	102	56-159	2.32	20
Vinyl Chloride	10.8	10.9	10	108	109	42-137	0.471	20
Xylenes, Total	28.3	28.0	30	94	93	70-130	0.941	20
Surrogate Recovery								
Dibromofluoromethane	27.4	27.4	25	110	109	70-130	0.226	20
Toluene-d8	25.9	25.7	25	104	103	70-130	0.641	20
4-BFB	2.65	2.60	2.5	106	104	70-130	1.95	20



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17
Date Analyzed: 6/20/17 - 6/21/17
Instrument: GC7
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140651
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-140651
 1706880-001AMS/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	0.515	0.40	0.60	-	86	82-118
MTBE	ND	0.0881	0.050	0.10	-	88	61-119
Benzene	ND	0.0819	0.0050	0.10	-	82	77-128
Toluene	ND	0.0864	0.0050	0.10	-	86	74-132
Ethylbenzene	ND	0.126	0.0050	0.10	-	126	84-127
Xylenes	ND	0.349	0.015	0.30	-	116	86-129
Surrogate Recovery							
2-Fluorotoluene	0.1007	0.101		0.10	101	101	75-134

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.524	0.547	0.60	ND	87	91	58-129	4.18	20
MTBE	0.0702	0.0661	0.10	ND	70	66	47-118	6.07	20
Benzene	0.0674	0.0635	0.10	ND	67	64	55-129	5.94	20
Toluene	0.0725	0.0703	0.10	ND	71	69	56-130	3.08	20
Ethylbenzene	0.105	0.101	0.10	ND	105	101	63-129	4.01	20
Xylenes	0.315	0.309	0.30	ND	104	102	64-131	2.00	20
Surrogate Recovery									
2-Fluorotoluene	0.0885	0.0849	0.10		88	85	62-126	4.14	20



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/22/17
Date Analyzed: 6/22/17
Instrument: GC3
Matrix: Water
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140940
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-140940
 1706A12-001AMS/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	51.2	40	60	-	85	78-116
MTBE	ND	11.3	5.0	10	-	113	72-122
Benzene	ND	9.16	0.50	10	-	92	81-123
Toluene	ND	9.82	0.50	10	-	98	83-129
Ethylbenzene	ND	10.1	0.50	10	-	101	88-126
Xylenes	ND	29.4	1.5	30	-	98	87-131
Surrogate Recovery							
aaa-TFT	10.61	10.3		10	106	103	89-116

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	52.9	53.7	60	ND	88	90	63-133	1.43	20
MTBE	11.1	11.6	10	ND	111	116	69-122	3.93	20
Benzene	9.02	9.41	10	ND	90	94	84-125	4.21	20
Toluene	9.53	9.97	10	ND	95	100	87-131	4.54	20
Ethylbenzene	9.71	10.1	10	ND	97	101	92-126	3.64	20
Xylenes	28.9	28.6	30	ND	96	95	88-132	1.04	20
Surrogate Recovery									
aaa-TFT	10.3	10.5	10		103	105	90-117	2.47	20




Quality Control Report

Client: ATC Group Services
Date Prepared: 6/27/17
Date Analyzed: 6/27/17
Instrument: GC26
Matrix: Soilgas
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 141127
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS-141127

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.0856	0.025	0.10	-	86	60-140

 QA/QC Officer



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/27/17
Date Analyzed: 6/27/17
Instrument: GC24
Matrix: SoilGas
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 141287
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS-141287

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	ND	30	60	-	99	60-140
Acrolein	ND	44.3	2.9	58.25	-	76	60-140
Acrylonitrile	ND	52.5	0.55	55	-	95	60-140
tert-Amyl methyl ether (TAME)	ND	95.6	1.0	105	-	91	60-140
Benzene	ND	71.6	0.80	80	-	89	60-140
Benzyl chloride	ND	181	1.3	132.5	-	136	60-140
Bromodichloromethane	ND	168	1.8	175	-	96	60-140
Bromoform	ND	317	2.6	262.5	-	121	60-140
Bromomethane	ND	80.9	1.0	97.5	-	83	60-140
1,3-Butadiene	ND	39.8	0.55	55	-	72	60-140
2-Butanone (MEK)	ND	ND	38	75	-	99	60-140
t-Butyl alcohol (TBA)	ND	83.0	16	77.5	-	107	60-140
Carbon Disulfide	ND	79.2	0.80	80	-	99	60-140
Carbon Tetrachloride	ND	140	1.6	160	-	87	60-140
Chlorobenzene	ND	132	1.2	117.5	-	112	60-140
Chloroethane	ND	69.9	0.65	67.5	-	104	60-140
Chloroform	ND	110	1.2	122.5	-	90	60-140
Chloromethane	ND	43.8	0.50	52.5	-	84	60-140
Cyclohexane	ND	82.0	9.0	87.5	-	94	60-140
Dibromochloromethane	ND	241	2.2	217.5	-	111	60-140
1,2-Dibromo-3-chloropropane	ND	352	0.060	245	-	143, F2	60-140
1,2-Dibromoethane (EDB)	ND	209	2.0	195	-	107	60-140
1,2-Dichlorobenzene	ND	191	1.5	152.5	-	125	60-140
1,3-Dichlorobenzene	ND	189	1.5	152.5	-	124	60-140
1,4-Dichlorobenzene	ND	190	1.5	152.5	-	124	60-140
Dichlorodifluoromethane	ND	114	1.2	125	-	91	60-140
1,1-Dichloroethane	ND	128	1.0	102.5	-	125	60-140
1,2-Dichloroethane (1,2-DCA)	ND	82.0	1.0	102.5	-	80	60-140
1,1-Dichloroethene	ND	87.0	1.0	100	-	87	60-140
cis-1,2-Dichloroethene	ND	103	1.0	100	-	103	60-140
trans-1,2-Dichloroethene	ND	102	1.0	100	-	102	60-140
1,2-Dichloropropane	ND	100	1.2	117.5	-	85	60-140
cis-1,3-Dichloropropene	ND	124	1.2	115	-	107	60-140
trans-1,3-Dichloropropene	ND	115	1.2	115	-	100	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	158	1.8	177.5	-	89	60-140
Diisopropyl ether (DIPE)	ND	89.0	1.0	105	-	85	60-140
1,4-Dioxane	ND	99.1	0.90	92.5	-	107	60-140

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QA/QC Officer



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/27/17
Date Analyzed: 6/27/17
Instrument: GC24
Matrix: SoilGas
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 141287
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS-141287

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	-	77	60-140
Ethyl acetate	ND	80.4	0.90	92.5	-	87	60-140
Ethyl tert-butyl ether (ETBE)	ND	95.8	1.0	105	-	91	60-140
Ethylbenzene	ND	120	1.1	110	-	109	60-140
4-Ethyltoluene	ND	144	1.2	125	-	115	60-140
Freon 113	ND	193	2.0	195	-	99	60-140
Heptane	ND	86.8	10	105	-	83	60-140
Hexachlorobutadiene	ND	389	2.7	270	-	144, F2	60-140
Hexane	ND	78.3	9.0	90	-	87	60-140
2-Hexanone	ND	145	1.0	105	-	138	60-140
Isopropyl Alcohol	ND	ND	25	62.5	-	93	60-140
4-Methyl-2-pentanone (MIBK)	ND	97.1	1.0	105	-	92	60-140
Methyl-t-butyl ether (MTBE)	ND	89.5	0.90	92.5	-	97	60-140
Methylene chloride	ND	80.0	4.4	87.5	-	91	60-140
Methyl methacrylate	ND	94.4	1.0	104	-	91	60-140
Naphthalene	ND	438	2.6	265	-	165, F2	60-140
Propene	ND	ND	44	42.5	-	88	60-140
Styrene	ND	124	1.1	107.5	-	116	60-140
1,1,1,2-Tetrachloroethane	ND	188	1.8	175	-	107	60-140
1,1,2,2-Tetrachloroethane	ND	185	1.8	175	-	106	60-140
Tetrachloroethene	ND	194	1.7	172	-	113	60-140
Tetrahydrofuran	ND	64.8	1.5	75	-	86	60-140
Toluene	ND	101	0.95	95	-	107	60-140
1,2,4-Trichlorobenzene	ND	281	1.9	187.5	-	150, F2	60-140
1,1,1-Trichloroethane	ND	142	1.4	137.5	-	103	60-140
1,1,2-Trichloroethane	ND	139	1.4	137.5	-	101	60-140
Trichloroethene	ND	138	1.4	137.5	-	100	60-140
Trichlorofluoromethane	ND	134	1.4	142.5	-	94	60-140
1,2,4-Trimethylbenzene	ND	147	1.2	125	-	117	60-140
1,3,5-Trimethylbenzene	ND	144	1.2	125	-	115	60-140
Vinyl Acetate	ND	80.7	9.0	90	-	90	60-140
Vinyl Chloride	ND	44.7	0.65	65	-	69	60-140
Xylenes, Total	ND	325	3.3	330	-	98	60-140

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QA/QC Officer



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/27/17
Date Analyzed: 6/27/17
Instrument: GC24
Matrix: SoilGas
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 141287
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS-141287

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
1,2-DCA-d4	399.1	381		500	80	76	70-130
Toluene-d8	476.7	477		500	95	95	70-130
4-BFB	485.9	483		500	97	97	70-130

QA/QC Officer



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/20/17
Date Analyzed: 6/20/17
Instrument: GC37
Matrix: Sorbent Tube
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140756
Extraction Method: TO17
Analytical Method: TO17
Unit: µg/m³
Sample ID: MB/LCS-140756

QC Summary Report for VOCs by TO17

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1,1-Trichloroethane	ND	47.2	2.0	50	-	94	60-140
1,1-Dichloroethane	ND	53.1	2.0	50	-	106	60-140
1,1-Dichloroethene	ND	51.6	2.0	50	-	103	60-140
1,1-Dichloropropene	ND	48.3	2.0	50	-	97	60-140
2,2-Dichloropropane	ND	66.2	2.0	50	-	132	60-140
2-Butanone (MEK)	ND	221	8.0	200	-	111	60-140
2-Hexanone	ND	51.3	2.0	50	-	103	60-140
4-Methyl-2-pentanone (MIBK)	ND	47.0	10	50	-	94	60-140
Acetone	ND	1210	100	1000	-	121	60-140
Bromochloromethane	ND	43.9	2.0	50	-	88	60-140
Carbon Disulfide	ND	59.7	10	50	-	119	60-140
Carbon Tetrachloride	ND	47.1	2.0	50	-	94	60-140
Chloroform	ND	46.9	2.0	50	-	94	60-140
cis-1,2-Dichloroethene	ND	50.8	2.0	50	-	102	60-140
Dibromomethane	ND	47.4	2.0	50	-	95	60-140
Dichlorodifluoromethane	ND	47.2	2.0	50	-	94	60-140
Diisopropyl ether (DIPE)	ND	51.0	2.0	50	-	102	60-140
Ethyl tert-butyl ether (ETBE)	ND	54.3	2.0	50	-	109	60-140
Methylene chloride	ND	55.2	10	50	-	110	60-140
n-Butyl benzene	ND	49.6	2.0	50	-	99	60-140
t-Butyl alcohol (TBA)	ND	206	8.0	200	-	103	60-140
tert-Amyl methyl ether (TAME)	ND	58.0	2.0	50	-	116	60-140
Tetrahydrofuran	ND	460	2.0	500	-	92	60-140
trans-1,2-Dichloroethene	ND	41.1	2.0	50	-	82	60-140
Trichlorofluoromethane	ND	51.9	2.0	50	-	104	60-140
Benzene	ND	47.8	2.0	50	-	96	60-140
Bromobenzene	ND	50.3	2.0	50	-	101	60-140
Bromodichloromethane	ND	46.6	2.0	50	-	93	60-140
Bromoform	ND	46.0	2.0	50	-	92	60-140
sec-Butyl benzene	ND	52.2	2.0	50	-	104	60-140
tert-Butyl benzene	ND	51.3	2.0	50	-	103	60-140
Chlorobenzene	ND	45.3	2.0	50	-	91	60-140
2-Chlorotoluene	ND	47.8	2.0	50	-	96	60-140
4-Chlorotoluene	ND	49.9	2.0	50	-	100	60-140
Dibromochloromethane	ND	44.3	2.0	50	-	89	60-140
1,2-Dibromo-3-chloropropane	ND	19.0	2.0	20	-	95	60-140
1,2-Dibromoethane (EDB)	ND	47.7	2.0	50	-	95	60-140

(Cont.)

 QA/QC Officer



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/20/17
Date Analyzed: 6/20/17
Instrument: GC37
Matrix: Sorbent Tube
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140756
Extraction Method: TO17
Analytical Method: TO17
Unit: µg/m³
Sample ID: MB/LCS-140756

QC Summary Report for VOCs by TO17

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,2-Dichlorobenzene	ND	46.1	2.0	50	-	92	60-140
1,3-Dichlorobenzene	ND	46.3	2.0	50	-	93	60-140
1,4-Dichlorobenzene	ND	48.5	2.0	50	-	97	60-140
1,2-Dichloroethane (1,2-DCA)	ND	48.5	2.0	50	-	97	60-140
1,2-Dichloropropane	ND	54.2	2.0	50	-	108	60-140
1,3-Dichloropropane	ND	49.8	2.0	50	-	100	60-140
cis-1,3-Dichloropropene	ND	54.4	2.0	50	-	109	60-140
trans-1,3-Dichloropropene	ND	57.8	2.0	50	-	116	60-140
Ethylbenzene	ND	49.1	2.0	50	-	98	60-140
Hexachlorobutadiene	ND	43.7	2.0	50	-	87	60-140
Isopropylbenzene	ND	49.2	2.0	50	-	98	60-140
4-Isopropyl toluene	ND	53.9	2.0	50	-	108	60-140
Methyl-t-butyl ether (MTBE)	ND	59.8	2.0	50	-	120	60-140
Naphthalene	ND	50.2	2.0	50	-	100	60-140
n-Propyl benzene	ND	49.2	2.0	50	-	98	60-140
Styrene	ND	50.5	2.0	50	-	101	60-140
1,1,1,2-Tetrachloroethane	ND	48.8	2.0	50	-	98	60-140
1,1,2,2-Tetrachloroethane	ND	49.5	2.0	50	-	99	60-140
Tetrachloroethene	ND	42.9	2.0	50	-	86	60-140
Toluene	ND	42.9	2.0	50	-	86	60-140
1,2,3-Trichlorobenzene	ND	45.5	2.0	50	-	91	60-140
1,2,4-Trichlorobenzene	ND	45.3	2.0	50	-	91	60-140
1,1,2-Trichloroethane	ND	43.9	2.0	50	-	88	60-140
Trichloroethene	ND	42.6	2.0	50	-	85	60-140
1,2,3-Trichloropropane	ND	49.0	2.0	50	-	98	60-140
1,2,4-Trimethylbenzene	ND	50.0	2.0	50	-	100	60-140
1,3,5-Trimethylbenzene	ND	51.3	2.0	50	-	103	60-140
Xylenes, Total	ND	146	6.0	150	-	97	60-140
Surrogate Recovery							
1,2-DCA-d4	100.9	108		100	101	108	70-130
toluene-d8	98.71	104		100	99	104	70-130
4-BFB	96.72	104		100	97	104	70-130

 QA/QC Officer



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17
Date Analyzed: 6/20/17
Instrument: GC9a
Matrix: Soil
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140692
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-140692
 1706907-004AMS/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	40.2	1.0	40	-	101	79-133
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.95	25.3		25	100	101	77-109

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	47.1	48.6	40	5.258	105	108	59-150	3.01	30
Surrogate Recovery									
C9	25.2	25.2	25		101	101	78-109	0	30



Quality Control Report

Client: ATC Group Services
Date Prepared: 6/19/17
Date Analyzed: 6/19/17 - 6/20/17
Instrument: GC39A, GC9b
Matrix: Water
Project: Pleasanton PhII

WorkOrder: 1706926
BatchID: 140648
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS/LCSD-140648

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	50	-	-	-
TPH-Motor Oil (C18-C36)	ND	250	-	-	-

Surrogate Recovery

C9	616.7		625	99	79-111
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1140	1060	1000	115	106	88-134	7.30	30

Surrogate Recovery

C9	623	578	625	100	92	79-111	7.49	30
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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1706926

ClientCode: ATCE

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Report to:

Bryan Campbell
ATC Group Services
2400 Camino Ramon, Suite 360
San Ramon, CA 94583
(925) 460-5300 FAX: (925) 328-1090

Email: bryan.campbell@atcassociates.com
cc/3rd Party:
PO:
ProjectNo: Pleasanton Phil

Bill to:

Accounts Payable
ATC Group Services
2400 Camino Ramon, Suite 360
San Ramon, CA 94583
maurice.mckinnies@atcassociates.com

Requested TAT: 5 days;

Date Received: 06/19/2017

Date Logged: 06/20/2017

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
1706926-001	SB-11	SoilGas	6/19/2017 14:50	<input type="checkbox"/>					A	A	A	A	A			
1706926-001	SB-11-H	SoilGas	6/19/2017 14:50	<input type="checkbox"/>					B							
1706926-001	SB-11-N	Sorbent Tube	6/19/2017 14:50	<input type="checkbox"/>										C		
1706926-002	SB-10-2.5'	Soil	6/19/2017 09:55	<input type="checkbox"/>	A		A								A	
1706926-003	SB-10-7'	Soil	6/19/2017 10:00	<input type="checkbox"/>	A		A								A	
1706926-004	SB-10-GW	Water	6/19/2017 11:30	<input type="checkbox"/>		B		A								A

Test Legend:

1	8260VOC_S	2	8260VOC_W	3	G-MBTX_S	4	G-MBTX_W
5	HELIUM_LC_SOILGAS(%)	6	PRHELIUM SHROUD	7	TO15_HIGHLEVEL_SOIL(UG/M3)	8	TO15_Scan-SIM_SOIL(UG/M3) [N]
9	TO15-8260_SOIL(UG/M3) [N]	10	TO17VOC_ST(UGM3)	11	TPH(DMO)_S	12	TPH(DMO)_W

Prepared by: Jena Alfaro

The following SampIDs: 002A, 003A contain testgroup Multi Range_S.; The following SampID: 004A contains testgroup Multi Range_W.; 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: ATC GROUP SERVICES

Project: Pleasanton PhII

Work Order: 1706926

Client Contact: Bryan Campbell

QC Level: LEVEL 2

Contact's Email: bryan.campbell@atcassociates.com

Comments:

Date Logged: 6/20/2017

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
1706926-001A	SB-11	SoilGas	TO15 w/ Helium	1	1L Summa	<input type="checkbox"/>	6/19/2017 14:50	5 days		<input type="checkbox"/>	
1706926-001B	SB-11-H	SoilGas	ASTM D1946-90 (Helium)	1	1L Summa	<input type="checkbox"/>	6/19/2017 14:50	5 days		<input type="checkbox"/>	
1706926-001C	SB-11-N	Sorbent Tube	TO17 (VOCs) (µg/m³) <Naphthalene, Xylenes, Total>	1	Sorbent Tube	<input type="checkbox"/>	6/19/2017 14:50	5 days		<input type="checkbox"/>	
1706926-002A	SB-10-2.5'	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm SW8260B (VOCs) <Benzene, Ethylbenzene, Methyl-t-butyl ether (MTBE), Naphthalene, Toluene, Xylenes, Total>	1	4OZ Tall GJ	<input type="checkbox"/>	6/19/2017 9:55	5 days		<input type="checkbox"/>	
1706926-003A	SB-10-7'	Soil	Multi-Range TPH(g,d,mo) by EPA 8015Bm SW8260B (VOCs) <Benzene, Ethylbenzene, Methyl-t-butyl ether (MTBE), Naphthalene, Toluene, Xylenes, Total>	1	4OZ Tall GJ	<input type="checkbox"/>	6/19/2017 10:00	5 days		<input type="checkbox"/>	
1706926-004A	SB-10-GW	Water	Multi-Range TPH(g,d,mo) by EPA 8015Bm	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	6/19/2017 11:30	5 days	20%+	<input type="checkbox"/>	
1706926-004B	SB-10-GW	Water	SW8260B (VOCs) <Benzene, Ethylbenzene, Methyl-t-butyl ether (MTBE), Naphthalene, Toluene, Xylenes, Total>	2	VOA w/ HCl	<input type="checkbox"/>	6/19/2017 11:30	5 days	20%+	<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.



McCAMPBELL ANALYTICAL, INC.
 1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
 Telephone: (877) 252-9262 / Fax: (925) 252-9269
 www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD									
Turn Around Time: 1 Day Rush	2 Day Rush	3 Day Rush	STD	<input checked="" type="checkbox"/>	Quote #				
J-Flag / MDL	ESL	Cleanup Approved	Bottle Order #						
Delivery Format: PDF	GeoTracker EDF	EDD	Write On (DW)	EQuIS					

Report To: Bryan Campbell Bill To:

Company: ATC Group Services

Email: bryan.campbell@atcassociates.com

Alt Email: colin.klinesteker@atcassociates.com Tele:

Project Name: Pleasanton PhII Project#:

Project Location: 927 Main St. PO #

Sampler Signature: [Signature]

Analysis Requested									
Helium Shroud SN#									
Leak Check Default is IPA									
Notes: Please specify units if different than default: VOCs is reported in µg/m ³ , fixed is reported in %.									

SAMPLE ID Location / Field Point	Sampling Start		End	Canister SN#	Sample Kit / Manifold #	VOCs TO-15 (µg/m ³) - See Notes	8010 by TO-15 (µg/m ³)	TPH(g) (µg/m ³)	LEED: (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas (CO, Methane, Ethane, Ethylene, Acetylene, Propane, CO) %	Fixed Gas: (O ₂ , N ₂) %	APH: Aliphatic and/or Aromatic (circle one) µg/m ³	Helium Leak Check %	Leak Check (IPA, Norflorane, 1,1-difluoroethane) µg/m ³	Matrix			Canister Pressure / Vacuum			
	Date	Time	Time												Soilgas	Indoor Air	Initial	Final			
SB-11	6/19/17	1430	1450	R1205-2528		X													-30+	-8	
SB-11-H	↓	↓	↓	R12042537									X							-20	-4
SB-11-N	↓	↓	↓	—	sorbent tube									X						—	—

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time	Comments / Instructions
<u>COXIA ATC</u>	<u>6/19/17</u>	<u>1659</u>	<u>[Signature]</u>	<u>6/19/17</u>	<u>1700</u>	

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Sample Receipt Checklist

Client Name:	ATC Group Services	Date and Time Received	6/19/2017 17:00
Project Name:	Pleasanton Phil	Date Logged:	6/20/2017
WorkOrder No:	1706926	Received by:	Kena Ponce
Carrier:	<u>Client Drop-In</u>	Logged by:	Jena Alfaro
Matrix:	<u>Soil/SoilGas/Sorbent Tube/Water</u>		

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample/Temp Blank temperature	Temp: 12.4°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(Ice Type: WET ICE)			

UCMR Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Comments: