December 14, 2015

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Keith Nowell

Subject: Report of Additional Site Investigation Activities
3924 Market Street, Oakland, California
ACEH RO# 0000490; Global ID: T0600101187

Ladies and Gentlemen:

Attached please find a copy of the *Report of Additional Site Investigation Activities*, prepared by Gribi Associates. 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.

Very truly yours,

Scott Atthowe
Scott C. Atthowe Trust
3924 Market Street
Oakland, CA 94608

REPORT OF ADDITIONAL SITE INVESTIGATION ACTIVITIES

Former San Francisco French Bread UST Site
3924 Market Street, Oakland, California

ACDEH Fuel Leak Case: RO 0000490

Prepared for:

Mr. Scott Atthowe
Scott C. Atthowe Trust
3924 Market Street
Oakland, CA 94608

Prepared by:

Gribi Associates
1090 Adams Street, Suite K
Benicia, California, 94510

December 14, 2015

GRIBI
ASSOCIATES

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Environmental Health
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Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Report of Additional Site Investigation Activities* on behalf of Mr. Scott Atthowe for the underground storage tank (UST) site located at 3924 Market Street, Oakland, California (Site). This report describes and documents: (1) The drilling and sampling of two upgradient (north-northeast) soil borings, B-10 and B-11, and two downgradient (south-southwest) borings, B-12 and B-13; (2) The collection of two soil gas samples, SG-1 and SG-2, adjacent to the Site building; and (3) The monitoring of dissolved-phase groundwater in Site wells, MW-1, MW-2, and MW-3. The goal of these investigative activities has been to address previously-identified investigative data gaps in order to move the Site towards regulatory closure.

Note that the approved workplan requested that the product in Site wells be tested for viscosity; however, due to its viscosity and "non-pumpability", we were unable to devise a method to remove a sufficient volume of product from any of the three Site wells.

We appreciate the opportunity to present this report for your review. Please call if you have any questions or require additional information.

Very truly yours,

Matthew A. Rosman
Project Engineer

James E. Gribi
Professional Geologist
California No. 5843

REGISTERED GEOLOGIST
JAMES E. GRIBI
No. 5843
STATE OF CALIFORNIA

MAR/JEG:ct

TABLE OF CONTENTS

TABLES

Table of Contents (continued)

FIGURES

APPENDICES

REPORT OF ADDITIONAL SITE INVESTIGATION ACTIVITIES

3924 MARKET STREET
OAKLAND, CALIFORNIA

EXECUTIVE SUMMARY

Gribi Associates is pleased to submit this *Report of Additional Site Investigation Activities* on behalf of Mr. Scott Atthowe for the underground storage tank (UST) site located at 3924 Market Street, Oakland, California (Site). This report describes and documents: (1) The drilling and sampling of two upgradient (north-northeast) soil borings, B-10 and B-11, and two downgradient (south-southwest) borings, B-12 and B-13; (2) The collection of two soil gas samples, SG-1 and SG-2, adjacent to the Site building; and (3) The monitoring of dissolved-phase groundwater in Site wells, MW-1, MW-2, and MW-3. The goal of these investigative activities has been to address previously-identified investigative data gaps in order to move the Site towards regulatory closure.

Borings B-10 and B-11 were drilled and sampled on July 15, 2015, and borings B-12 and B-13 were drilled and sampled on November 2, 2015. Soil gas wells SG-1 and SG-2 were installed on July 15, 2015 and purged and sampled on July 21, 2015. On July 15, 2015, groundwater monitoring wells MW-1, MW-2, and MW-3 were sampled, and attempts were made to remove hydrocarbon product from the wells for viscosity testing. All activities were conducted in accordance with the approved workplan and with applicable regulatory guidelines and statutes.

Note that the approved workplan requested that the product in Site wells be tested for viscosity; however, due to its thickness and "non-pumpability", we were unable to devise a method to remove a sufficient volume of product from any of the three Site wells.

Results of Investigations

Soils encountered in the borings were generally similar, consisting of dark grey to brown clays to approximately 16 feet in depth, followed by poorly sorted gravelly sands and silts to 25 feet, the total depth investigated. Groundwater was generally encountered in the sandy/silty layer below 16 feet in depth. Slight to moderate hydrocarbon odors and staining were noted in borings B-10 and B-11 below ten feet in depth. Heavy oil residual product in the three Site wells was not pumpable.

Soil hydraulic conductivity in the clay layer present down to approximately 15 feet in depth was approximately 1.0 $x10^{-8}$ centimeters/second.

Soil samples collected at 8.0 feet, 12.0 feet and 15.0 feet in depth in B-10 showed low levels (less than 250 mg/kg) of TPH-D and TPH-MO; soil samples at 18.0 feet and 19.5 feet showed moderate levels (greater than 1,000 mg/kg) of TPH-D and TPH-MO; and a soil sample collected

at 21.0 feet in B-10 showed no detectable THP-D or TPH-MO. Soil samples collected at 11.0 feet, 13.0 feet, and 15 feet in depth in B-11 showed low levels of TPH-D and TPH-MO.

Soil samples from borings B-12 and B-13 showed no detectable concentrations of TPH-D or TPH-MO, and soil samples from all four borings showed no detectable concentrations of BTEX or Oxygenate constituents. Soil samples from B-10 and B-11 with low to moderate levels of TPH-D/TPH-MO generally showed very low concentrations (less than 1.0 mg/kg) of some PACs.

Grab groundwater samples from borings B-10 and B-11 showed elevated concentrations (greater than 10,000 ug/L) of TPH-D and TPH-MO, and very low concentrations of some PACs. Grab groundwater samples from all four borings showed no detectable concentrations of BTEX or Oxygenate constituents.

Dissolved-phase groundwater samples from MW-1, MW-2, and MW-3 showed relatively low levels of TPH-D and TPH-MO, with no detectable concentrations of BTEX or Oxygenate constituents and very low levels of PACs.

Soil gas samples SG-1 and SG-2 showed: (1) Nondetectable concentrations of TPH-G and TPH-D; (2) Low concentrations (less than 20 ug/m^3) of benzene; (3) No detectable naphthalene or methane; and (4) Relatively high oxygen concentrations (greater than 8 percent).

Revised Site Conceptual Model

The Site Conceptual Model (SCM) was revised to incorporate results from this investigation. Revisions to the SCM included: (1) Based on the detection of TPH-D/MO in borings B-10 and B-11, the source of the heavy hydrocarbon releases was likely fuel oil releases associated with the former Site bakery ovens, and not necessarily from an unverified UST or USTs; (2) The heavy residual product in the three Site wells is not pumpable and does not readily partition to dissolved-phase groundwater TPH-D/MO; and (3) Soil gas analytical results from SG-1 and SG-2, which showed no significant hydrocarbon concentrations, provide adequate indication that vapor intrusion is not a significant concern relative to this Site.

The SCM identifies one data gap relative to the Site, namely the exact source of the heavy hydrocarbons at the Site, and indicates that two hand auger borings would be sufficient to assess this data gap. However, these borings may not be necessary, given the fairly strong evidence that the source of the heavy hydrocarbons is the former bakery ovens located approximately 30 to 35 feet upgradient from recent borings B-10 and B-11.

Low-Threat Closure Policy Evaluation

Based on the results of this and previous investigations, it appears that this Site generally meets the general and media-specific criteria under the *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP). Relative to the general criteria, the only criterion that would at first seem not to be met is the present of free product beneath the Site. However, the product is not mobile and not migrating and, thus, does not meet the LTCP definition of “free product”.

The Site easily meets the LTCP media-specific criteria relative to groundwater, vapor intrusion to indoor air, and direct contact and outdoor vapor exposure.

Summary

We believe that there is sufficient Site data to warrant regulatory closure of this Site under the LTCP. While a data gap exists relative to the exact source of the heavy hydrocarbon COCs, we believe that the existing data relative to the plume configuration and the limited mobility of the COCs is sufficient to rule out other potential sources. In addition, while we did not obtain a numerical measure of product viscosity, there is sufficient anecdotal data which clearly shows that the product does not meet the definition of "free product" under the LTCP. Finally, the heavy residual product present beneath the Site does not contain sufficient concentrations of specific risk-based contaminants and, thus, does not pose a risk to current and future Site or offsite receptors.

1.0 INTRODUCTION

Gribi Associates is pleased to submit this *Report of Additional Site Investigation Activities* on behalf of Mr. Scott Atthowe for the underground storage tank (UST) site located at 3924 Market Street, Oakland, California (Site) (see Figure 1 and Figure 2). This report describes and documents: (1) The drilling and sampling of two upgradient (north-northeast) soil borings, B-10 and B-11, and two downgradient (south-southwest) borings, B-12 and B-13; (2) The collection of two soil gas samples, SG-1 and SG-2, adjacent to the Site building; and (3) The monitoring of dissolved-phase groundwater in Site wells, MW-1, MW-2, and MW-3. The goal of these investigative activities has been to address previously-identified investigative data gaps in order to move the Site towards regulatory closure.

Note that the approved workplan requested that the product in Site wells be tested for viscosity; however, due to its thickness and "non-pumpability", we were unable to devise a method to remove a sufficient volume of product from any of the three Site wells.

All Site activities were conducted in accordance with the procedures set forth in prior approved workplans and with applicable regulatory guidelines and statutes.

1.1 Scope of Work

Gribi Associates was contracted by the property owners to conduct the following scope of work:

Task 1: Conduct pre-field activities.
Task 2: Install four investigative borings
Task 3: Conduct groundwater monitoring of Site wells
Task 4: Conduct laboratory analyses of soil, water, and vapor samples.
Task 5: Prepare report of findings.

These tasks were conducted in accordance with regulatory approvals and with generally accepted sampling guidelines and protocols.

1.2 Limitations

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted environmental protocols.

The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hydrogeologic data.

2.0 SITE BACKGROUND

According to the USGS Oakland, West, California 7.5-Minute Quadrangle Map, the Site lies on a gently southwest-sloping plain approximately one mile east from San Francisco Bay. The elevation at the project site is approximately 60 feet above mean sea level. The Site is located in a mixed commercial, light industrial, and residential area of north Oakland. Based on site topography and location, we would expect groundwater flow in the site area to generally be to the northwest towards San Francisco Bay.

Subsurface soils at the Site generally consist of clays to approximately 15 feet in depth, followed by poorly sorted sands and silts to 25 feet, the total depth investigated on the Site. Groundwater at the site is generally encountered at depths below 15 feet below surface grade, held under confining pressure.

2.1 Site Description

The Site comprises a nominally square-shaped land parcel measuring approximately 200 feet by 200 feet. The Site includes an irregularly-shaped building that covers most of the parcel and actually comprises an amalgamation of an older two-story brick building on the northwest side of the site and more recent single story concrete block building additions on the northeast and southeast sides of the site. The site building has concrete slab flooring throughout. The slab flooring is slightly variable in elevation due to the different ages of construction. A few small concrete patches, possible floor drain remnants, are present in the concrete slab flooring. A partially-finished basement is present beneath the western side of the site building. This basement, which is currently used for storage, has concrete slab flooring. A floor drain is present in the basement that appears to have been part of a drainage system that transmitted water from various floor drains throughout the bakery northward to the storm drain or sewer beneath Market Street.

A covered loading dock located on the southwest side of the site has a concrete-slabbed ramp that extends approximately two to three feet below surface grade at the loading dock. The parking/loading yard on the southwest side of the Site is concrete-paved.

The Site is currently occupied by Atthowe Fine Arts Services, which uses the Site to pack, crate, and store fine art pieces. Most of the Site building is subdivided into different areas used to store variously-sized crated art pieces.

2.2 Brief Site History

The main Site building at 40th and Market Street was constructed in 1927 and was expanded south to 39th Street and east along 40th Street in 1957. The Site was occupied by Toscana Bakery from approximately 1928 to 1987. The bakery apparently included ovens in the middle of the Site building and a small boiler room on the north side of the Site building.

Mr. Scott Atthowe purchased the Site in 1993 and redeveloped it for his fine art services business. As part of this redevelopment, many abandoned bakery items, including ovens and various baking paraphernalia, were dismantled and removed. Mr. Atthowe recalled that the previous owners, Toscana Bakery, had indicated that there may have been a fuel oil underground storage tank (UST) located in the Site parking lot adjacent to the current covered loading dock area, and that this UST was removed by Toscana prior to his purchase of the Site.

An unused water supply well was present in the Atthowe Fine Arts office area on the south side of the Site until January 2015 (see Section 2.5 of this report). A 1991 Phase I Environmental Site Assessment report for the Site, included in ACEH files, contains a DWR well log for this well. The well log indicates that the wells was constructed in May 1928 for Toscani Bakery at 899 40th Street and that the well is cased with approximately 54 feet of 10-inch diameter conductor casing and with 108 feet of 8-inch casing with 50 feet of perforations. The well log indicates primarily clays from 50 feet in depth (where the drilling company apparently took over the well drilling activities) to 18 feet total depth, with a gravel noted from 97 to 102 feet in depth. The well log includes no information about well production.

2.3 Site Environmental Conditions

The Site operated as a bakery from perhaps the mid-1920s until 1987. This facility included one 500-gallon fuel underground storage tank (UST), located in the Market Street sidewalk. A fuel dispenser associated with the UST was located adjacent to the Site building immediately east of the UST. The age of the UST is not known.

In March 1991, the 500-gallon UST and associated piping and dispenser were removed. Two soil samples collected from the UST excavation cavity at about 9 feet in depth and one soil sample collected at 2 feet below removed piping showed low levels (less than 25 milligrams per kilogram, mg/kg) of Total Petroleum Hydrocarbons as Gasoline and Diesel (TPH-G and TPH-D) and low levels (less than 0.5 mg/kg) of gasoline constituents Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX).

In June 1991, the UST excavation cavity was over excavated vertically to about 14 feet in depth. Five soil samples were collected at about 13 feet in depth and showed no detectable TPH-D, up to 210 mg/kg of TPH-G, and low levels (less than 5 mg/kg) of BTEX. The over excavation cavity was backfilled with imported pea gravel.

In May and June 1995, three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed on the Site (see Table 1 for well specifications). MW-1 is located in an expected downgradient (west) direction from the former fuel dispenser, and wells MW-2 and MW-3 are located crossgradient and downgradient, respectively, from the former UST. Soil samples collected at about 10 feet in depth in each of the three wells showed very low to non-detectable levels of gasoline- and diesel-range hydrocarbons (see Table 2). Boring logs for the three wells show sand and gravel soils below approximately 14 feet in depth. Brown staining with moderate to strong odors are indicated below approximately 12 feet in depth on all three well boring logs, particularly in well boring MW-1. Quarterly groundwater sampling of the three wells for one year in 1995 and early 1996 showed very low to non-detectable levels of

gasoline-range hydrocarbons and low to moderate levels of diesel-range hydrocarbons in the wells (see Table 3).

In August 1999, four years after installation of Site wells, thick, black oily product was encountered in well MW-1, and in April 2000, this product was noted in all three Site wells. Laboratory analysis of the black oily product indicated it to be in the diesel- to motor oil-range, perhaps representing Bunker C heating oil. The report documenting these activities included a work scope to conduct historical records review to try to identify a heating oil source on the Site.

On April 12, 2001, the Alameda County Environmental Health (ACEH) issued a letter requesting a report summarizing the historical records review and a workplan to determine the extent of the apparent heating oil release. ACEH issued follow-up directive letters on July 3, 2008, July 28, 2009, and September 10, 2010, generally requesting that the previously-requested work plan be submitted.

2.4 Recent Activities

On January 17, 2012, Gribi Associates personnel attempted to measure product thicknesses in the three site wells. However, the oily product in the three wells was too viscous to measure using both a water/product interface probe and a disposable bailer. In both cases, the tool (interface probe or bailer) would not sink through the residue, but would simply come to rest on top of it. With the bailer, only after dropping the bailer repeatedly from several feet above the residue, were we able to slowly extend the bailer into the product.

In all three wells, the dark brown to black viscous residue had a thickness of approximately 1.5 feet, and the groundwater beneath the sludge was clear. The residue had a crude oil hydrocarbon odor. In order to assess this residue, we collected a sample of product and water from MW-2 in a pint canning jar with sealing lid. This sample was labeled and chilled for transport to the laboratory under formal chain of custody. Because the product was semi-solid, the lab results were reported in milligrams per kilogram (mg/kg). Results of the lab analysis showed 890 mg/kg of TPH-G, 20,000 mg/kg of TPH-D, and 29,000 mg/kg of TPH-MO, with no detectable BTEX, SVOCs, or VOCs except 0.65 mg/kg of sec-butylbenzene. The laboratory chromatogram for this sample indicates a single very heavy hydrocarbon (C_{20} -C_{40} range) product.

On February 23, 2012, ForeSite conducted an electromagnetic survey to assess whether or not underground storage tanks (USTs) or other underground anomalies were present inside or outside the Site building. Thus, it appears that the fuel oil UST, if present in the past, was removed and is no longer present on the Site.

On November 21 and 22, 2013, nine soil borings, B-1 through B-9, were drilled on the Site and west-southwest from the Site (see Figures 3, 4, and 5). Soils encountered in the borings were generally similar, consisting of dark grey to brown clays to approximately 14 feet in depth, followed by poorly sorted sands and silts to 20 feet, the total depth investigated. Slight to moderate hydrocarbon odors and staining were encountered in the sand layer below 14 feet in

depth in borings B-1, B-3, B-4, and B-6. In boring B-2, located near the entrance to the covered loading dock, slight to moderate hydrocarbon odors and staining were encountered in clays from approximately eight feet to 14 feet in depth, and also in the uppermost sand from approximately 14 to 16 feet in depth. In boring B-5, located inside the covered loading dock area, slight hydrocarbon odors and staining were encountered from approximately four feet to 17 feet in depth. No significant hydrocarbon sheens were noted in water samples from any of the nine borings.

Slight to moderate concentrations (over 100 milligrams per kilogram, mg/kg) of TPH-D and TPH-MO were encountered in soil samples at about 15 feet depth in borings B-1, B-3, B-4, and B-6. Slight to moderate concentrations of TPH-D and TPH-MO were also encountered at about nine feet in depth in boring B-2. No detectable concentrations of benzene were reported in any soil samples from the nine soil borings.

Moderate levels (over 1,000 micrograms per liter, ug/L) of TPH-D and TPH-MO were encountered in the grab groundwater samples from B-3 and B-4. Also, a moderate concentration (9,900 ug/L) of TPH-G was reported in the grab groundwater sample from boring B-4. No detectable concentrations of benzene were reported in any of the groundwater samples from the nine soil borings.

On March 19, 2015, Gribi Associates submitted the *Data Gaps Work Plan*. This workplan included: (1) A Site background summary; (2) A Site Conceptual Model (SCM); and (3) A work plan to address data gaps summarized in the SCM and as specified in the October 23, 2014 letter from Alameda County Department of Environmental Health (ACDEH). This workplan was approved with conditions on May 15, 2015.

2.5 Water Supply Well Sampling and Decommissioning

On January 10, 2015, the water supply well present in the Site office area was sampled and decommissioned in accordance with Alameda County Public Works Agency (ACPWA) permit requirements. Well decommissioning generally included filling the well with grout using a tremie pipe. During initial assessment and sampling of the well, it was determined that the well was approximately 200 feet deep. The only detection reported in the well water sample collected prior to decommissioning was 6.8 ug/L of benzene. The water sample showed no detectable TPH-G, TPH-D, TPH-MO, toluene, ethylbenzene, xylenes, Oxygenates, or Polynuclear Aromatic Compounds (PACs).

2.6 Sensitive Receptor Survey

Gribi Associates previously obtained well logs for the site vicinity from the California Department of Water Resources (DWR). A review of the DWR logs indicates approximately 32 groundwater monitoring wells within 1,000 feet radius from the Site. Results of the well survey indicate no water supply wells within a 1,000-foot radius from the Site.

2.7 Site Conceptual Model

Gribi Associates prepared a Site Conceptual Model (SCM) for the Site in March 2015 which generally included an evaluation of contaminant sources, contaminant impacts, potential environmental and human health receptors, and investigative data gaps. Some of the key elements of the SCM include the following:

- The contaminants of concern are primarily TPH-G, TPH-D and TPH-MO.
- The contaminant source, or sources, appears to be a fuel oil UST, or USTs, perhaps located in the current loading dock or building basement area.
- Contaminant impacts in soil appear to be fairly low, with maximum TPH-G, TPH-D, and TPH-MO concentrations of 2.4 mg/kg, 740 mg/kg and 910 mg/kg, respectively.
- Contaminant impacts in groundwater are limited primarily to dark brown, viscous free product in the apparent source area and extending a short distance southwest. Dissolved phase groundwater contaminants are limited to this area also. Maximum TPH-G, TPH-D, and TPH-MO concentrations encountered in the apparent source area are 9,900 ug/L, 4,700 ug/L, and 5,100 ug/L, respectively. No BTEX was encountered in groundwater samples during recent sampling events.
- Contaminant impacts in vapor have not been assessed.
- Potential human health receptors include future construction workers (direct exposure). Human exposure to outdoor and indoor volatile contaminant vapors is not expected to be a concern given the nonvolatile nature of the contaminants.
- Investigative data gaps include (1) the nature and extent of soil and groundwater contaminant impacts upgradient (northeast) in the apparent source area; (2) The lateral extend of soil hydrocarbon impacts downgradient (south-southwest) from the source area; (3) the nature and extent of vapor contaminant impacts beneath the Site building; (4) the nature of the product present in Site wells.

The investigation reported herein attempts to address the investigative data gaps revealed in the SCM.

3.0 DESCRIPTION OF FIELD ACTIVITIES

Borings B-10 and B-11 were drilled and sampled on July 15, 2015, and borings B-12 and B-13 were drilled and sampled on November 2, 2015. Soil gas wells SG-1 and SG-2 were installed on July 15, 2015 and purged and sampled on July 21, 2015. On July 15, 2015, groundwater monitoring wells MW-1, MW-2, and MW-3 were sampled, and attempts were made to remove hydrocarbon product from the wells for viscosity testing. All activities were conducted in accordance with the approved workplan and with applicable regulatory guidelines and statutes.

3.1 Pre-Field Activities

Prior to beginning field activities, a drilling permit was obtained from the Alameda County Department of Public Works. Also, an encroachment permit was obtained from the City of

Oakland for borings on the public right-of-way. Copies of these permits are provided in Appendix A.

Prior to implementing field activities, proposed boring locations were marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. Also, proposed boring locations were also cleared by a private underground utility locator.

Prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all the workers involved in conducting the investigations.

3.2 Locations of Borings, Soil Gas Wells, and Sub-Slab Vapor Wells

The locations of borings B-10 through B-13 and soil gas samples SG-1 and SG-2 are shown on Figure 3 and Figure 6. Borings B-10 and B-11 were located on the presumed upgradient (northeast) side of the hydrocarbon plume in order to provide assessment of potential heating oil source area. Borings B-12 and B-13 were located on the downgradient (southwest) side of the hydrocarbon plume in an attempt to define the downgradient extent of soil hydrocarbon impacts. Soil gas samples SG-1 and SG-2 were located adjacent to the Site building in the hydrocarbon plume area in order to provide assessment of potential vapor intrusion concerns.

3.3 Drilling and Sampling of Investigative Borings

Boring activities were conducted by a Gregg Drilling, a California-licensed drilling contractor. Borings B-10 and B-11 were drilled and sampled on July 15, 2015. Borings B-12 and B-12 were drilled and sampled on November 2, 2015.

The four investigative borings, B-10 through B-13, were drilled to approximately 20 feet below surface grade. Boring B-11 was located in the basement floor of the Site building, which is approximately 8 feet below surrounding surface grade. This boring was drilled using a hand auger to a depth of approximately 10.5 feet below the basement floor grade, which corresponded to approximately 18.5 feet in depth relative to outside surrounding surface grade.

Boring B-11 was drilled using hand-auger equipment, and borings B-10, B-12 and B-13 were drilled using direct-push hydraulically-driven soil coring equipment. For borings B-10, B-12, and B-13, continuous soil cores were collected to total depth in a clear plastic acetate tube, nested inside a stainless steel core barrel. After each four-foot core barrel was brought to the surface and exposed, the core was sliced lengthwise to expose the soil core, examined, logged, and field screened for hydrocarbons by a qualified geologist using sight, smell, and an organic vapor monitor (OVM).

Following and examination of soil cores, soil samples were collected at five-foot intervals starting at approximately three feet in depth and from specific zones of interest. Soil samples were collected in an acetate liner, which was cut to the desired length (typically four to six inches), capped with Teflon tape and plastic end caps, labeled, and placed in cold storage pending transport to a laboratory under formal chain-of-custody. All coring and sampling

equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water.

One grab groundwater sample was collected from each of the four borings at approximately 16 feet below surface grade (first encountered groundwater). Grab groundwater samples were collected from the open boring after placing 1-1/4-inch diameter well casing in the boring. Groundwater was then sampled using a clean, small-diameter bailer, and poured directly into laboratory-supplied containers. Each sample container was tightly sealed, labeled, and placed in cold storage for transport to the laboratory under formal chain-of-custody.

Following completion, the investigative borings will be grouted to match existing grade using a cement slurry. Soil cuttings and cleaning rinseate generated during this investigation were stored onsite in sealed DOT-approved containers.

3.4 Collection of Soil Vapor Samples

Temporary soil vapor sample wells SG-1 and SG-2 were drilled and installed on July 15, 2015. Soil vapor samples were collected on July 21, 2015.

Soil vapor sampling at SG-1 and SG-2 was conducted by installing a temporary soil vapor well to a depth of approximately 5.5 feet below grade using hand-auger equipment. A single soil sample was collected from each soil gas boring at a depth of approximately 5.0 feet below grade. All sampling activities will be conducted in accordance with *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, Final, October 2011) and *Advisory - Active Soil Gas Investigations* (DTSC, April 2012). Specific vapor sampling procedures are summarized as follows:

- The soil vapor samples were not be collected within 72 hours following a significant (>0.5 inches rain) precipitation event.

- A soil boring was hand augered to approximately 5.5 feet in depth. During augering, soils were logged and an attempt was made to collect the soil gas sample in a permeable zone at above the groundwater table or as close to five feet in depth as possible.

- A temporary well was constructed using 1/4-inch diameter Teflon tubing with a porous vapor point. The vapor point was placed in the well boring near the boring total depth, and filter sand was placed around the point to approximately six inches above the vapor point (approximately 5.5 feet to 5.0 feet in depth). At least six inches of dry granular bentonite was placed above the sand pack, and the remainder of the borehole was filled with “pourable” hydrated bentonite poured slowly from the surface.

- A “T” valve was placed in line at the ground surface to allow for system purging and for pressure testing of the above ground portion of the sampling train. The sampling tubing was attached to a 200-milliliter per minute maximum flow controller, then a one

liter laboratory-supplied Summa Canister™ (evacuated to 29 inches mercury vacuum) with vacuum pressure gauge.

- After allowing the temporary vapor well to equilibrate for at least two hours, the well was purged and sampled. A laboratory supplied purge/pressure test Summa Canister™ (evacuated to 29 inches mercury) was used to test vacuum pressure in the above ground portion of the sampling train. Sampling train vacuum pressure was maintained for at least 10 minutes; if a pressure drop occurred, the system connections were tightened and the pressure testing continued.

- The vapor well was purged of approximately three purge volumes using a dedicated Summa Canister.

- The entire probe and sampling train was placed under a shroud and a leak test was conducted. Helium from a compressed gas cylinder was pumped into the shroud, and the helium concentration inside the shroud was maintained at approximately 10,000 ppmV (the detection level for the ASTM Method D-1946 is 100 ppmV). Helium monitoring was conducted using a Mark Radiodetection MGD-2002 helium detector with internal pump (or equivalent). For the sampling train leak test, the helium monitor was attached to the purge tube and the T-valve opened. A positive reading of helium by the detector would indicate the presence of helium inside the sample train and, therefore, a leak in the sample train. If helium was detected, all connections in the sample train were tightened and the leak test repeated until no helium was detected.

- The vapor sample was collected by opening the Summa canister and allowing the vapor to fill the canister until the vacuum pressure in the canister reaches approximately 20 percent of initial (approximately 5 to 6 inched mercury). The flow controller was used so that the Summa Canister will fill slowly (200 ml per minute or less) to insure a representative soil vapor sample. Prior to, at start time, and during sampling, periodic vacuum measurements were recorded on a field data sheet, and initial and final vacuum pressures was noted on chain-of-custody records.

- After completion of all sampling activities at each boring location, the ¼-inch Teflon tubing was removed, and the borings were grouted and re-surfaced to match existing surface grade. All waste materials were properly contained and disposed of based on laboratory analytical results.

The vapor samples (filled Summa canisters) were secured and transported to a California-certified analytical laboratory under formal chain-of-custody.

3.5 Sampling of Groundwater Monitoring Wells

Site wells MW-1, MW-2, and MW-3 were purged and sampled on July 15, 2015. In order to test the viscosity of the product in the three wells, an attempt was made to collect free-product samples from the wells using various bailers and a peristatic pump. However, due to

its viscosity and “non-pumpability”, we were unable to devise a method to remove a sufficient volume of product (at least 250 mL) from any of the three Site wells.

The three groundwater monitoring wells, MW-1, MW-2, and MW-3, were then purged and sampled using a peristaltic pump. In order attempt to collect a representative dissolved-phase groundwater sample, the following procedures was used:

- Threaded blank ¾-inch diameter PVC pipe was extended to approximately 3 inches (no more than 6 inches) below the free product.

- Teflon ¼-inch diameter tubing was extended downward inside the PVC pipe to approximately one to two feet below the product.

- At least three well volumes were purged from the well using a peristaltic pump. Purging was conducted at a low purge rate (less than one-half gallon per minute) so that the water/product depth did not drop in the well.

- Groundwater was poured directly into laboratory-supplied containers, sealed tightly, labelled, and placed in an iced cooler for transport to the analytical laboratory.

3.6 Laboratory Analysis of Soil, Water, Product, and Vapor Samples

Approximately 26 soil samples and seven water samples were analyzed for the following parameters.

- USEPA 8260B Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8260B Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
- USEPA 8260B Oxygenates (DIPE, ETBE, MTBE, TAME, TBA)
- USEPA 8260B Naphthalene
- USEPA 8015C Total Petroleum Hydrocarbons-Carbon Chain
- USEPA 8270 SIM Polynuclear Aromatic Compounds (PACs)

In addition, one soil sample from boring B-10 collected at approximately 12 to 13 feet in depth was analyzed for the following parameter:

- ASTM D 5084 Hydraulic Conductivity

Also, two vapor samples (SG-1 and SG-2) were analyzed for the following parameters:

- USEPA TO-15 TPH-G and BTEX
- USEPA TO-17 TPH-D and Naphthalene
- ASTM Method D-1946 Fixed Gases (Helium, Oxygen, Carbon Dioxide, Nitrogen)
- RSK 175 Methane

All analyses were conducted by California-certified analytical laboratories, with standard turnaround on results.

4.0 RESULTS OF INVESTIGATION

4.1 General Subsurface Conditions

Boring logs for B-10 through B-13 are included in Appendix B. Soils encountered in the borings were generally similar, consisting of dark grey to brown clays to approximately 16 feet in depth, followed by poorly sorted gravelly sands and silts to 25 feet, the total depth investigated. Groundwater was generally encountered in the sandy/silty layer below 16 feet in depth.

In boring B-10, slight hydrocarbon odors and staining were noted from approximately 10 feet to 15 feet in depth and at 20.5 feet in depth. Moderate odors and staining were noted from approximately 15 feet to 20.5 feet in depth. No significant OVM detections were noted.

In boring B-11, slight hydrocarbon odors and staining were noted from approximately 10 feet to 15 feet in depth, and moderate odors and staining were noted from approximately 15 feet to 18.5 feet (total depth investigated). No significant OVM detections were noted.

We attempted to collect a sample of the heavy oil product in the three groundwater monitoring wells. However, this product is too thick to pump and coated, rather than collected within, bailers and pump inlet pipes. Pictures showing the product coating a container during attempted sampling are included in Appendix C.

4.2 Results of Laboratory Analyses

Cumulative soil laboratory analytical results from this and previous investigations are summarized in Table 2 and on Figure 6. Cumulative grab groundwater and groundwater monitoring results from this and previous investigations are summarized in Table 3 and on Figure 6. Soil gas laboratory analytical results from SG-1 and SG-2 are summarized in Table 4. Laboratory data reports and chain-of-custody records for all analyses are included in Appendix D. Laboratory chromatograms for selected soil and water samples from B-10 and B-11 are also included in Appendix D.

Soil hydraulic conductivity in the clay layer present down to approximately 15 feet in depth was approximately 1.0 $x10^{-8}$ centimeters/second.

Soil samples collected at 8.0 feet, 12.0 feet and 15.0 feet in depth in B-10 showed low levels (less than 250 mg/kg) of TPH-D and TPH-MO; soil samples at 18.0 feet and 19.5 feet showed moderate levels (greater than 1,000 mg/kg) of TPH-D and TPH-MO; and a soil sample collected at 21.0 feet in B-10 showed no detectable THP-D or TPH-MO. Soil samples collected at 11.0 feet, 13.0 feet, and 15 feet in depth in B-11 showed low levels of TPH-D and TPH-MO.

Soil samples from borings B-12 and B-13 showed no detectable concentrations of TPH-D or TPH-MO, and soil samples from all four borings showed no detectable concentrations of BTEX

or Oxygenate constituents. Soil samples from B-10 and B-11 with low to moderate levels of TPH-D/TPH-MO generally showed very low concentrations (less than 1.0 mg/kg) of some PACs.

Grab groundwater samples from borings B-10 and B-11 showed elevated concentrations (greater than 10,000 ug/L) of TPH-D and TPH-MO, and very low concentrations of some PACs. Grab groundwater samples from all four borings showed no detectable concentrations of BTEX or Oxygenate constituents.

Laboratory chromatograms, which are included in Appendix D, show the TPH-D and TPH-MO to be the result of a single hydrocarbon product in the C20 to C45 carbon range (heavy fuel oils).

Dissolved-phase groundwater samples from MW-1, MW-2, and MW-3 showed relatively low levels of TPH-D and TPH-MO, with no detectable concentrations of BTEX or Oxygenate constituents and very low levels of PACs.

Soil gas samples SG-1 and SG-2 showed: (1) Nondetectable concentrations of TPH-G and TPH-D; (2) Low concentrations (less than 20 ug/m^3) of benzene; (3) No detectable naphthalene or methane; and (4) Relatively high oxygen concentrations (greater than 8 percent).

5.0 REVISED SITE CONCEPTUAL MODEL

A copy of the revised the Site Conceptual Model, which incorporates results from this investigation, is included in Table 5. Based on the results of this investigation, the SCM is revised in the following key areas (see Figures 7 and 8):

- **Source of releases:** The TPH-D/MO detections in soil and groundwater samples from borings B-10 and B-11 indicate a source further upgradient (northeast) from these borings. Given that the historic bakery ovens were previously located 30 to 35 feet northeast from these borings, it seems likely that the source of the heavy hydrocarbon releases was fuel oil leaks associated with the ovens themselves, and not necessarily from an unverified UST or USTs.

- **Soil hydrocarbon impacts:** Soil samples from downgradient borings B-12 and B-13 showed no significant hydrocarbon detections. Thus, soil hydrocarbon impacts have been defined laterally in the downgradient (southwest) direction. The upgradient (northeast) lateral extent of hydrocarbon impacts have not been defined.

- **Nature of residual free product:** The residual product in the three Site wells is not pumpable and does not partition readily to dissolved-phase groundwater TPH-D/MO.

- **Soil vapor impacts:** Two soil gas samples, SG-1 and SG-2, were collected adjacent to the Site building within the hydrocarbon plume area. These soil gas samples showed no significant hydrocarbon impacts. These results provide adequate indication that vapor intrusion is not a significant concern relative to this Site.

The SCM identifies one data gap relative to the Site, namely the exact source of the heavy hydrocarbons at the Site, and indicates that two hand auger borings would be sufficient to assess this data gap. However, these borings may not be necessary, given the fairly strong evidence that the source of the heavy hydrocarbons is the former bakery ovens located approximately 30 to 35 feet upgradient from recent borings B-10 and B-11.

6.0 LOW-THREAT CLOSURE POLICY EVALUTION

Based on the results of this and previous investigations, it appears that this Site generally meets the general and media-specific criteria under the *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP).

6.1 LTCP General Criteria

The Site meets all of the following LTCP general criteria:

- The Site is on a public water supply system; East Bay Municipal Utilities District.
- The release consists only of petroleum. COCs are primarily diesel/motor oil (fuel oil) range hydrocarbons.
- The major sources of contamination have been stopped. The bakery ovens and any appurtenances were removed, and there is no source present on the Site.
- A conceptual site model has been developed for this Site (see Table 5)
- Secondary sources have been removed to the extent practicable.
- Soil and groundwater has been tested for MTBE and reported.
- Nuisance as defined by Water Code section 13050 does not exist at the Site.

At first appearance, the Site does <u>not</u> meet the following LTCP general criterion:

- There has been no free product encountered at the Site.

Residual product is present below 15 feet in depth at the Site; however, this product is viscous and, we believe, does not meet the definition of "free product" under the LTCP. The overall reason for this is that the residual product, which was undoubtedly released over 50 years ago, is very viscous, not pumpable, and not significantly impacting dissolved-phase groundwater hydrocarbon impacts.

The Low-Threat Underground Storage (UST) Case Closure Policy ("Policy") requires that free product be removed to "the maximum extent practicable"[1]. Further, the Policy states that "Abatement of free product migration shall be used as a minimum objective for the design of any free product removal system."

[1] Low-Threat Underground Storage Tank (UST) Case Closure Policy, State Water Resources Control Board, August 17, 2012.

Free product (or light non-aqueous phase liquid (LNAPL)) can exist as either residual (immobile) LNAPL, mobile LNAPL, or migrating LNAPL[2]. The referenced State Water Quality Control Board guidance states that "the term free product is primarily equivalent to migrating LNAPL (a subset of mobile LNAPL)" and "LNAPL must be removed to the point that its migration is stopped and the LNAPL extent is stable." The free product in Site wells is clearly immobile and stable[3]. Also, as evidenced by the very limited extent of dissolved-phase hydrocarbon impacts, the heavy residual product has not acted as a secondary source for dissolved-phase hydrocarbon impacts in groundwater beneath the Site or downgradient from the Site.

6.2 LTCP Media-Specific Criteria: Groundwater

The Site meets the following LTCP media-specific criteria for groundwater:

- The contaminant plume that exceeds groundwater quality objectives is less than 250 feet in length.
- There is no free product (based on LTCP definition for "free product", as discussed in Section 6.1 of this report).
- The nearest existing water supply well and/or surface water body is greater than 1,000 feet from the defined plume boundary.
- The dissolved concentration of benzene is less than 3,000 micrograms per liter
- (µg/l), and the dissolved concentration of MTBE is less than 1,000 µg/l.
- An analysis of site-specific conditions determined that the site under current and reasonably anticipated near-term future scenarios poses a low-threat to human health and safety and to the environment, and water quality objectives will be achieved within a reasonable time frame.

6.3 LTCP Media-Specific Criteria: Vapor Intrusion to Indoor Air

The Site meets the following LTCP media-specific criteria for vapor intrusion to indoor air (Scenario 4 – Direct Measurement of Soil Gas Concentrations):

- There is a minimum of five vertical feet of soil between the depth of soil gas measurement and the building foundation. Soil gas samples were collected at 5.5 feet in depth; the concrete slab foundation is approximately 0.5 feet thick.
- Oxygen concentrations in soil gas are greater than 4 percent. The average soil gas oxygen concentration for the Site soil gas samples to date is 8.7 percent.
- Benzene concentrations in soil gas are less than 85,000 ug/m^3. The highest benzene concentration for all Site soil gas samples was 17 ug/m^3.

[2] Technical Justification for Groundwater Media-Specific Criteria, State Water Resources Control Board, Final, 04-24-2012; supplement to Low-Threat Underground Storage Tank (UST) Case Closure Policy.

[3] Additional anecdotal evidence of the product's immobility is that it apparently took some four years for the product in Site wells to migrate laterally from annular native soils surrounding the wells, through the filter pack and into the wells themselves.

6.4 LTCP Media-Specific Criteria: Direct Contact and Outdoor Air Exposure

The Site meets the following LTCP media-specific criteria for direct contact and outdoor air exposure:

- Benzene concentrations in soil are below LTCP Table 1 respective 0-5 ft bgs and 5-10 ft bgs residential risk levels of 1.9 mg/kg and 2.8 mg/kg. Benzene concentrations in these depth intervals in Site soil borings are currently nondetect.
- Ethylbenzene concentrations in soil are below LTCP Table 1 respective 0-5 ft bgs and 5-10 ft bgs residential risk levels of 21 mg/kg and 32 mg/kg. The ethylbenzene concentrations in the 0-5 ft bgs and 5-10 ft bgs depth intervals in Site borings are currently nondetect.
- Naphthalene concentrations in soil are below LTCP Table 1 respective 0-5 ft bgs and 5-10 ft bgs residential risk levels of 9.7 mg/kg and 9.7 mg/kg. The naphthalene concentrations in the 0-5 ft bgs and 5-10 ft bgs depth intervals in Site borings are currently nondetect.

Since the Site meets both the general and media-specific criteria, regulatory closure should be granted for this site.

7.0 SUMMARY

We believe that there is sufficient Site data to warrant regulatory closure of this Site under the LTCP. While a data gap exists relative to the exact source of the heavy hydrocarbon COCs, we believe that the existing data relative to the plume configuration and the limited mobility of the COCs is sufficient to rule out other potential sources. In addition, while we did not obtain a numerical measure of product viscosity, there is sufficient anecdotal data which clearly shows that the product does not meet the definition of “free product” under the LTCP. Finally, the heavy residual product present beneath the Site does not contain sufficient concentrations of specific risk-based contaminants and, thus, does not pose a risk to current and future Site or offsite receptors.

TABLES

Table 1

MONITORING WELL CONSTRUCTION DETAILS

3924 Market Street UST Site

Well ID	Boring Depth[1]	Well Depth	Casing Diameter	Blank PVC Riser	PVC Screen[2]	Grout Seal[3]	e Seal	Filter Pack[4]	TOC Elevation[5]
MW-1	21.5	21	0.167 (2")	0-6	6-21	0.5-4	4-5	5-16	56.46
MW-2	24	24	0.167 (2")	0-9	9-24	0.5-7	7-8	8-24	57.41
MW-3	24	24	0.167 (2")	0-9	9-24	0.5-7	7-8	8-24	56.24

Table Notes:

1 = All measurements are in feet below top of casing.

2 = 0.020-inch slot size.

3 = Portland cement

4 = Lonestar No. 3 Silica Sand

5 = Top of Casing mean sea level elevation.

Table 2
CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS
3924 Market Street UST Site

Sample ID	Sample Date	Sample Depth	Concentration, milligrams per kilogram (mg/kg)								
			TPH-M	TPH-D	TPH-G	B	T	E	X	OXY	PACs
UST Removal, March 1991											
A1	3/29/91	8 ft	–	**1.0**	**14**	**0.30**	**0.12**	**0.14**	**0.40**	–	–
A2	3/29/91	10 ft	–	**4.7**	**26**	**0.28**	**0.24**	**0.19**	**0.20**	–	–
P1	3/29/91	2 ft	–	<1.0	**6.3**	**0.20**	**0.11**	**0.042**	**0.012**	–	–
UST Overexcavation, June 1991											
D-14	6/21/91	14 ft	–	<1.0	**150**	<0.005	**0.20**	**0.51**	**2.0**	–	–
F-12	6/21/91	12 ft	–	<10	**67**	**0.03**	**0.13**	**0.27**	**0.75**	–	–
G-13	6/21/91	13 ft	–	<1.0	**27**	**0.01**	**0.04**	**0.1**	**0.27**	–	–
H-13	6/21/91	13 ft	–	<10	**9.0**	**0.01**	**0.02**	**0.04**	**0.08**	–	–
I-13	6/21/91	13 ft	–	<10	**210**	**0.4**	**0.6**	**1.0**	**2.0**	–	–
Well Installation Activities, May 1995											
MW-1-8.5	5/25/95	8.5 ft	–	<10	<1.0	<0.005	<0.005	<0.005	<0.005	–	–
MW-2-10.5	5/25/95	10.5 ft	–	<10	<1.0	<0.005	<0.005	<0.005	<0.005	–	–
MW-3-11	5/26/95	11.0 ft	–	**28**	**4.0**	<0.005	**0.011**	<0.005	**0.069**	–	–
Soil Boring Investigation, November 2013											
B-1-8.0	11/22/13	8.0 ft	<10	**71**	**210**	<0.005	**7.0**	<0.005	**6.78**	–	–
B-1-12.0	11/22/13	12.0 ft	<10	<10	<10	<0.005	**0.013**	<0.005	<0.010	–	–
B-1-16.0	11/22/13	16.0 ft	<10	<10	<10	<0.005	<0.005	<0.005	<0.010	–	–
B-2-9.0	11/22/13	9.0 ft	**280**	**290**	**1.2**	<0.005	<0.005	<0.005	<0.010	–	–
B-2-12.0	11/22/13	12.0 ft	<10	**43**	**0.59**	<0.005	<0.005	<0.005	<0.010	–	–
B-2-15.0	11/22/13	15.0 ft	<10	<10	**0.84**	<0.005	**0.0069**	<0.005	<0.010	–	–
B-3-8.0	11/21/13	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-3-12.0	11/21/13	12.0 ft	<10	**43**	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-3-15.0	11/21/13	15.0 ft	**290**	**280**	**1.2**	<0.005	<0.005	<0.005	<0.010	–	–
B-4-8.0	11/22/13	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-4-12.0	11/22/13	12.0 ft	<10	**11**	<0.5	<0.005	<0.005	<0.005	<0.010	–	–

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3924 Market Street UST Site

Sample ID	Sample Date	Sample Depth	Concentration, milligrams per kilogram (mg/kg)								
			TPH-M	TPH-D	TPH-G	B	T	E	X	OXY	PACs
B-4-15.0	11/22/13	15.0 ft	**570**	**490**	**1.1**	<0.005	<0.005	<0.005	<0.010	–	–
B-5-7.0	11/21/13	7.0 ft	<10	**70**	**0.69**	<0.005	<0.005	<0.005	<0.010	–	–
B-5-12.0	11/21/13	12.0 ft	<10	**18**	**0.58**	<0.005	<0.005	<0.005	<0.010	–	–
B-5-15.0	11/21/13	15.0 ft	<10	**11**	**1.6**	<0.005	<0.005	<0.005	<0.010	–	–
B-6-8.0	11/21/13	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-6-12.0	11/21/13	12.0 ft	<10	**10**	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-6-15.0	11/21/13	15.0 ft	**910**	**740**	**2.4**	<0.005	<0.005	<0.005	<0.010	–	–
B-7-8.0	11/21/13	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-7-12.0	11/21/13	12.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-7-16.0	11/21/13	16.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-8-8.0	11/21/13	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-8-12.0	11/21/13	12.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-8-16.0	11/21/13	16.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-9-8.0	11/22/13	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-9-12.0	11/22/13	12.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
B-9-16.0	11/22/13	16.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	–	–
Soil Boring Investigation, July-November 2015											
B-10-2.0	7/15/15	2.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B -10-4.0	7/15/15	4.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-10-6.0	7/15/15	6.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-10-8.0	7/15/15	8.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-10-10.0	7/15/15	10.0 ft	**40**	**35**	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.0073** Chrysene:
B-10-12.0	7/15/15	12.0 ft	**75**	**96**	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.010** Anthracene **0.025** Chrysene **0.038** Fluorene **0.042** Phenanthrene **0.060** Pyrene

Table 2
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3924 Market Street UST Site

Sample ID	Sample Date	Sample Depth	Concentration, milligrams per kilogram (mg/kg)								
			TPH-M	TPH-D	TPH-G	B	T	E	X	OXY	PACs
B-10-15.0	7/15/15	15.0 ft	**200**	**150**	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.034** Acenaphthene **0.029** Anthracene **0.074** Pyrene **0.039** Chrysene **0.014** Benzo (a) anthracene **0.074** Pyrene
B-10-18.0	7/15/15	18.0 ft	**1,200**	**1,100**	**13**	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.068** Naphthalene **0.390** Acenaphthene **0.760** Anthracene **0.390** Benzo (a) anthracene **0.810** Pyrene **0.089** Benzo (a) pyrene **0.013** Dibenz (a,h) anthracene **0.430** Fluorene **0.680** Phenanthrene
B-10-19.5	7/15/15	19.5 ft	**3,200**	**3,100**	**3.1**	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.041** Naphthalene **0.530** Acenaphthene **0.850** Anthracene **0.430** Benzo (a) anthracene **0.095** Chrysene **0.089** Benzo (k) fluoranthene **0.095** Benzo (a) pyrene **0.460** Fluorene **0.980** Phenanthrene **0.880** Pyrene
B-10-21.0	7/15/15	21.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND

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Sample ID	Sample Date	Sample Depth	Concentration, milligrams per kilogram (mg/kg)								
			TPH-M	TPH-D	TPH-G	B	T	E	X	OXY	PACs
B-11-9.0	7/15/15	9.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-11-11.0	7/15/15	11.0 ft	**32**	**73**	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.017** Anthracene **0.059** Pyrene
B-11-13.0	7/15/15	13.0 ft	**86**	**130**	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.060** Acenaphthene **0.032** Anthracene **0.140** Pyrene **0.021** Chrysene **0.038** Benzo (a) anthracene
B-11-15.0	7/15/15	15.0 ft	**820**	**700**	**8.5**	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.033** Naphthalene **0.270** Acenaphthene **0.120** Anthracene **0.260** Benzo (a) anthracene **0.070** Benzo (a) pyrene **0.120** Chrysene **0.350** Pyrene
B-11-17.0	7/15/15	17.0 ft	<0.500	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
SG-1-5.0	7/15/15	5.0 ft	<0.500	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
SG-2-5.0	7/15/15	5.0 ft	<0.500	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-12-7.5	11/2/15	7.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	**0.017** Anthracene **0.017** Benzo (a) anthracene **0.012** Benzo (b) fluoranthene **0.011** Benzo (a) pyrene **0.017** Chrysene **0.046** Fluoranthene **0.035** Phenanthrene **0.045** Pyrene
B-12-11.5	11/2/15	11.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-12-15.5	11/2/15	15.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-12-19.0	11/2/15	19.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND

Table 2
CUMULATIVE SOIL LABORATORY ANALYTICAL RESULTS
3924 Market Street UST Site

Sample ID	Sample Date	Sample Depth	Concentration, milligrams per kilogram (mg/kg)								
			TPH-M	TPH-D	TPH-G	B	T	E	X	OXY	PACs
B-13-7.5	11/2/15	7.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-13-11.5	11/2/15	11.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-13-15.5	11/2/15	15.5 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-13-19.0	11/2/15	19.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
B-13-24.0	11/2/15	24.0 ft	<10	<10	<0.5	<0.005	<0.005	<0.005	<0.010	ALL ND	ALL ND
Shallow Soil ESL			**1,000**	**110**	**1,000**	**1.2**	**9.3**	**4.7**	**11**	**Various**	**Various**

TABLE NOTES

TPH-M = Total Petroleum Hydrocarbons as motor oil

TPH-D = Total Petroleum Hydrocarbons as diesel

TPH-G = Total Petroleum Hydrocarbons as gasoline

B = Benzene,

T = Toluene

E = Ethylbenzene

X = Xylenes

OXY = Oxygenates, including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Methyl Tertiary Butyl Ether (MTBE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME)

PACs = Polyaromatic compounds, includes 16 individual compounds

<1.0 = Not detected above the expressed value.

– = Not analyzed for this analyte.

ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, San Francisco Bay Regional Water Quality Control Board, Interim Final, December 2013; Table D-2 (commercial land use).*

Table 3
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
3924 Market Street UST Site

Well ID	Sample Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/L)								
				TPH-M	TPH-D	TPH-G	B	T	E	X	Oxy	PACs
MW-1	6/1/95	9.70	46.76	–	**3,600**	**73**	<0.5	**1.0**	<0.5	**3.0**	–	–
<56.46>	9/6/95	10.70	45.76	–	**10,000**	<50	<0.5	<0.5	<0.5	<0.5	–	–
	12/7/95	11.36	45.10	–	**940**	**260**	<0.5	<0.5	<0.5	<0.5	–	–
	3/7/96	10.11	46.35	–	**3,800**	**150**	<0.5	<0.5	<0.5	<0.5	–	–
	6/19/96	11.90	44.56	–	**2,000**	**220**	<0.5	<0.5	<0.5	**1.0**	–	–
	4/19/00	10.9	45.56	–	–	–	–	–	–	–	–	–
	4/19/00	–	–	**240,000(a)**	**320,000(a)**	–	–	–	–	–	–	–
	7/15/15	–	–	**1,300**	**2,500**	**130**	<0.5	<0.5	<0.5	<1.0	ALL ND	**5.32** Acenaphthene **2.84** Anthracene **3.30** Benzo (a) anthracene **1.86** Chrysene **2.60** Fluorene **9.96** Pyrene
MW-2	6/1/95	11.59	45.82	–	<50	<50	<0.5	<0.5	<0.5	<0.5	–	–
<57.41>	9/6/95	12.20	45.21	–	**500**	<50	<0.5	<0.5	<0.5	<0.5	–	–
	12/7/95	12.38	45.03	–	**90**	<50	<0.5	<0.5	<0.5	<0.5	–	–
	3/7/96	11.12	46.29	–	**320**	<50	<0.5	<0.5	<0.5	<0.5	–	–
	6/19/96	13.19	44.22	–	**260**	<50	<0.5	<0.5	<0.5	<0.5		
	4/19/00	13.3	44.11	**1,300**	**1,700**	<50	<0.5	<0.5	<0.5	<0.5	<2.5	–
	7/15/15	–	–	**340**	**440**	<50	<0.5	<0.5	<0.5	<1.0	ALL ND	**1.82** Pyrene
MW-3	6/1/95	11.53	44.71	–	**370**	**72**	**1.0**	**0.6**	<0.5	**0.9**	–	–
<56.24>	9/6/95	11.92	44.32	–	**2,800**	<50	<0.5	<0.5	<0.5	<0.5	–	–
	12/7/95	12.05	44.19	–	<50	<50	<0.5	<0.5	<0.5	<0.5	–	–
	3/7/96	11.70	44.54	–	**470**	**150**	**3.5**	<0.5	<0.5	**0.6**	–	–
	6/19/96	12.54	43.70	–	**420**	<50	<0.5	<0.5	<0.5	<0.5	–	–
	4/19/00	13.4	42.84	**8,900**	**14,000**	**1,800**	<0.5	<0.5	<0.5	<0.5	<5.0	–
	4/19/00	–	–	**230,000(b)**	**330,000(b)**	–	–	–	–	–	–	–
	7/15/15	–	–	**7,900**	**10,000**	**190**	<0.5	<0.5	<0.5	<1.0	ALL ND	**11.9** Acenaphthene **7.56** Anthracene **15.4** Benzo (a) anthracene **4.34** Benzo (a) pyrene **6.04** Chrysene **5.74** Fluorene **36.1** Pyrene
Soil Boring Investigation, November 2013												
B-1-GW	11/22/13	(16.5)	–	<500	<500	<50	<1.0	<1.0	<1.0	<2.0		–
B-2-GW	11/22/13	(15.5)	–	<500	<500	<50	<1.0	<1.0	<1.0	<2.0		–
B-3-GW	11/21/13	(16.5)	–	**3,100**	**2,400**	**84**	<1.0	<1.0	<1.0	<2.0		–

Table 3
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
3924 Market Street UST Site

Well ID	Sample Date	GW Depth	GW Elev.	Concentration, micrograms per liter (ug/L)								
				TPH-M	TPH-D	TPH-G	B	T	E	X	Oxy	PACs
B-4-GW	11/22/13	(15.5)	–	**5,100**	**4,700**	**9,900**	<1.0	<1.0	<1.0	**1.0**		–
B-5-GW	11/21/13	(16.5)	–	<500	<500	**87**	<1.0	<1.0	<1.0	<2.0		–
B-6-GW	11/21/13	(14.0)	–	<500	<500	<50	<1.0	<1.0	<1.0	<2.0		–
B-7-GW	11/21/13	(15.0)	–	<500	<500	<50	<1.0	<1.0	<1.0	<2.0		–
B-8-GW	11/21/13	(15.0)	–	<500	<500	<50	<1.0	<1.0	<1.0	<2.0		–
B-9-GW	11/22/13	(20-24)	–	<500	<500	<50	<1.0	<1.0	<1.0	<2.0		–
Soil Boring Investigation, July-November 2015												
B-10-GW	7/15/15	(17.5)	–	**400,000**	**320,000**	**69,000**	<0.5	<0.5	<0.5	<1.0	ALL ND	**41** Naphthalene
B-11-GW	7/15/15	(17.0)	–	**76,000**	**61,000**	**390**	<0.5	<0.5	<0.5	<1.0	ALL ND	**4.2** Naphthalene **3.28** Acenaphthene **1.36** Anthracene **1.56** Benzo (a) anthracene **2.92** Chrysene **4.10** Pyrene
B-12-W	11/2/15	(18.0)	–	<100	<50	<50	<0.5	<0.5	<0.5	<1.0	ALL ND	**2.38** Phenanthrene
B-14-W	11/2/15	(18.5)	–	<100	<50	<50	<0.5	<0.5	<0.5	<1.0	ALL ND	ALL ND
Groundwater ESL				640	640	500	27(c)	9.5E+04(c)	310(c)	3.7E+04(c)	Various	Various

TABLE NOTES

GW Depth = Groundwater depth, in feet below top of casing or ground surface.
GW Elev = Groundwater mean sea level elevation, in feet .
TPH-M = Total Petroleum Hydrocarbons as motor oil
TPH-D = Total Petroleum Hydrocarbons as diesel
TPH-G = Total Petroleum Hydrocarbons as gasoline
B = Benzene,
T = Toluene
E = Ethylbenzene
X = Xylenes
OXY = Oxygenates, includes Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Methyl Tertiary Butyl Ether (MTBE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME)
PACs = Polyaromatic compounds, includes 16 individual compounds
<0.5 = Not detected above the expressed value.
– = Not analyzed for this analyte.
<56.46> = Top of casing mean sea level elevation.
(a) = Product in well; purged one gallon product; sampled product but not groundwater.
(b) = Approximately four inch of heavy product in well; sampled both product and underlying groundwater.
ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, San Francisco Bay Regional Water Quality Control Board, Interim Final, December 2013; Table E-2 (commercial land use).*
(c) = ESL for vapor intrusion concerns (Table E-1, Table F-1b).

Table 4

SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS

3924 Market Street UST Site

Sample ID	Date	Sample Depth	TPH-D (ug/m3)	TPH-G (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	Naphth. (ug/m3)	O2 (%)	N (%)	CO2 (%)	CH4 (%)	He (%)
SG-1	7/21/15	5.5 ft	<1,000	<7170	**9.9**	**94**	**120**	**530**	<2.7	**8.29**	**83.9**	<1.00	<5.00	<5.0
SG-2	7/21/15	5.5 ft	<1,000	<7170	**17**	**15**	**27**	**134**	<2.7	**9.10**	**80.1**	<1.00	<5.00	<5.0
Soil Gas ESL			**5.70E+05**	**2.5E+06**	**420**	**1.3E+06**	**4,900**	**4.4E+05**	**360**	NL	NL	NL	**LEL = 4.4**	NL

Table Notes:

TPH-G = Total petroleum hydrocarbons as gasoline

B= Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

Naphth. = Naphthalenes

O_2 = Oxygen

N_2 = Nitrogen

CO2 = Carbon Dioxide

CH_4: Methane

He = Helium

<1.0 = Not detected above the expressed detection level.

NL = Not Listed

ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, San Francisco Bay Regional Water Quality Control Board, Interim Final, December 2013; Table E-2 (commercial land use).*

TABLE 5
SITE CONCEPTUAL MODEL (rev 12/14/2015)
3924 Market Street, Oakland, California

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address
Geology and Hydrology	Regional	The Site is located along the southwestern margin of the Berkeley Alluvial Plain, which is a subarea of the East Bay Plain area (*East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* , SFBRWQCB, June 1999). Alluvial deposits that generally consist of silts and clays containing thin sandy and gravelly lenses underlie the area. Estuarian mud, known as "Bay Mud," extends east of the San Francisco Bay where it interfingers with the surficial fluvial deposits. Important regional sands, such as the Merritt Sand, appear to exist intermittently beneath the Site. The depth to bedrock in the Berkeley Alluvial Plain varies from near zero on the north to 500 feet on the south end of the Plain. The Hayward fault defines the eastern boundary of the Berkeley Alluvial Plain and forms a geologic discontinuity. Bedrock in the East Bay Area is mostly Franciscan Complex melange, which includes marine sandstone and shale, chert, metavolcanics, serpentinized ultramafic rocks, and limestone.	Figure 1	None	n/a
	Site	**Geology:** Soils encountered in Site borings generally consist of clays down to approximately 15 feet in depth, followed by sands and silts to 25 feet, the total depth investigated. **Hydrology:** Water-saturated soils are generally encountered in sands and silts at or below approximately 16 feet in depth, and may in the borings to approximately 13 feet in depth. Hydraulic gradient appears to be to the west-southwest. Groundwater elevations measured in 1995 and 1996 showed a westerly elevation gradient. The configuration of soil and groundwater hydrocarbon impacts in Site borings clearly indicates a southwesterly migration direction.	Figure 4 and Figure 5	None	n/a
Surface Water Bodies		The closest surface water bodies are culvertized creeks. Temescal Creek, the main drainage for the Site area, is located approximately 2,000 feet north-northeast from the Site at 53rd Street.	Figure 1	None	n/a
Nearby Wells		The State Water Resources Control Board Geotracker GAMA website includes approximate locations of water supply wells in California. No water supply wells are shown within the immediate Oakland, Emeryville, or Berkeley areas. Also, DWR records indicate no water supply wells (other than the Site well, which has been decommissioned) within 1,000 feet from the Site. An unused water supply well was present in the Site office area. The DWR log indicates that the well was constructed in 1928 and is 108 feet deep, with approximately 50 feet of 10-inch conductor casing and 108 feet of 8-inch casing with 50 feet of perforations. This well was decommissioned in accordance with ACPWA permit requirements in January 2015. A water sample collected prior to decommissioning showed no significant concentrations of hydrocarbons or VOCs	Figure 1 and Figure 2	None.	n/a.

TABLE 5
SITE CONCEPTUAL MODEL (rev 12/14/2015)
3924 Market Street, Oakland, California

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address
Potential Sources	Onsite	**Former Gasoline USTs:** One 500-gallon gasoline UST, located in the Market Street sidewalk in front of the Site, was removed in March 1991. Two soil samples collected from the UST excavation cavity at about 9 feet in depth and one soil sample collected at two feet below removed piping showed low levels (less than 25 milligrams per kilogram, mg/kg) of Total Petroleum Hydrocarbons as Gasoline and Diesel (TPH-G and TPH-D) and low levels (less than 0.5 mg/kg) of gasoline constituents Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). In June 1991, the UST excavation cavity was over excavated vertically to about 14 feet in depth. Five soil samples were collected at about 13 feet in depth and showed no detectable TPH-D, up to 210 mg/kg of TPH-G, and low levels (less than 5 mg/kg) of BTEX. The over excavation cavity was backfilled with imported pea gravel. **Former Fuel Oil Use:** Based on field and laboratory analytical results, the source of COCs appears to have been fuel oil releases associated with the Toscana Bakery ovens, formerly located in the approximate center of the Site building. Review of Sanborn maps indicates that there were two brick and one steel ovens in 1951 and 1952, and three brick ovens in 1967 and 1969. City building department records did not include specific information about the ovens (i.e. type of fuel) but did include a record indicating that ovens were replaced at the Site in 1963. It is also possible that a fuel oil UST, or USTs, were present on the Site; however, there is no direct evidence of fuel oil USTs. Also, 1991 Phase I ESA did not report the presence of fuel oil USTs on the Site. The current Site owner, Scott Atthowe recalled that the previous owners, Toscana Bakery, had indicated that there may have been a fuel oil underground storage tank (UST) located in the site parking lot adjacent to the current covered loading dock area, and that this UST was removed by Toscana prior to his purchase of the Property in 1993. However, recent results from borings B-10 and B-11 seem to indicate a release, or releases, at or near the ovens themselves.	Figure 2 and Figure 7; Table 2 and Table 3.	Exact source.	Two shallow hand auger borings in oven area.
	Offsite	Review of hazardous waste site lists and historical records for the Site and site vicinity indicates no potential offsite sources of contamination.	Figure 1, Figure 2.	None	n/a

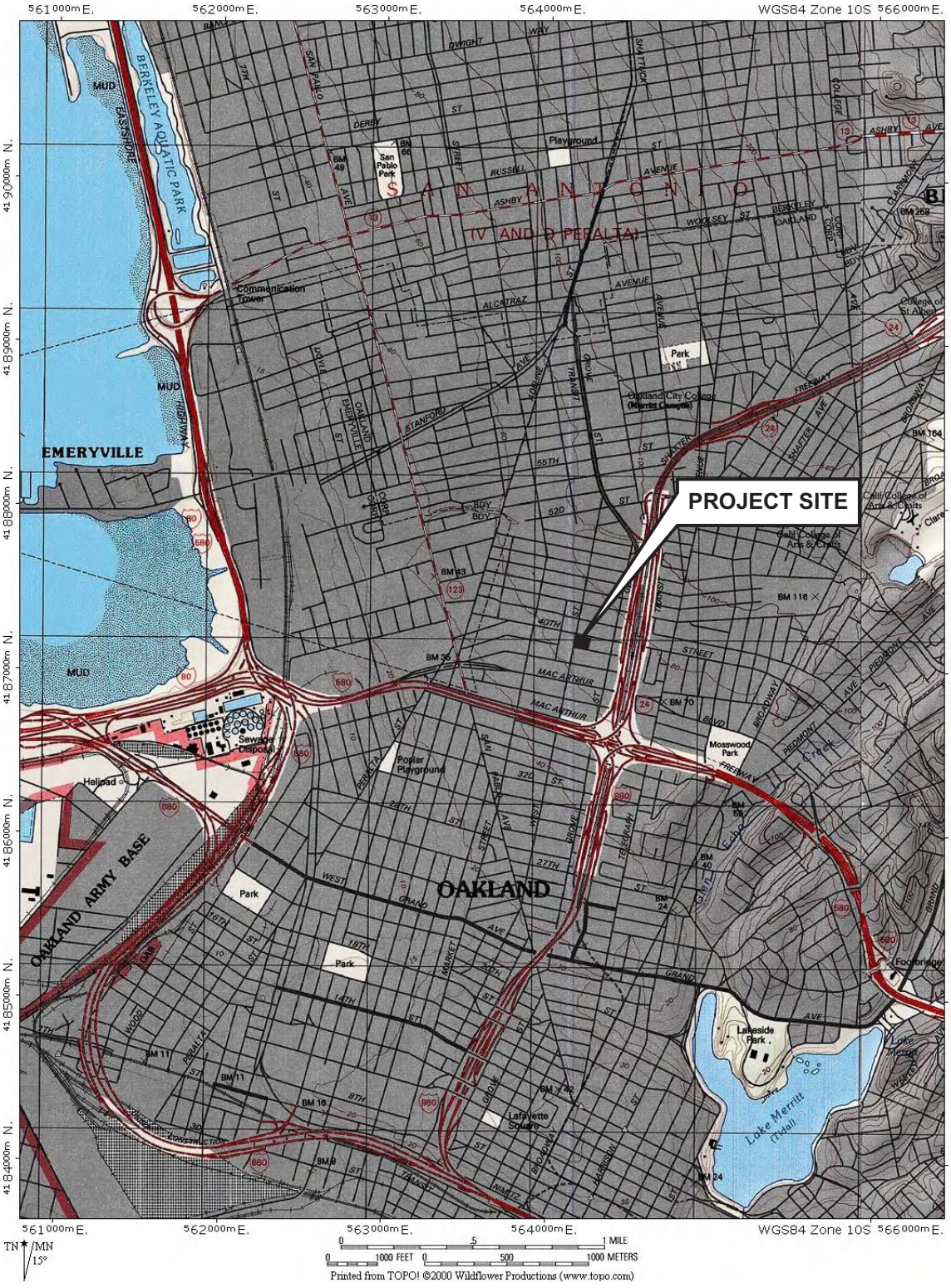
TABLE 5
SITE CONCEPTUAL MODEL (rev 12/14/2015)
3924 Market Street, Oakland, California

SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address
Release Occurrence		**Former Gasoline UST (Market Street sidewalk):** Soil and groundwater sampling at and adjacent to this former UST does not indicate significant releases either in soil or water. **Former Fuel Oil UST (or USTs):** Hydrocarbons associated with this release consists of heavy-range hydrocarbons (C20 -C40 range). The heavy hydrocarbon release was large enough to result in free product occurrence; however, over time it appears that the product may have degraded to a viscous, fairly insoluble product. Given the configuration of relatively large soil hydrocarbon plume and small groundwater hydrocarbon plume, it appears likely that: (1) Releases associated with these plumes occurred many decades ago; (2) At the time of these releases, the fuel oil was more mobile (less viscous) and, as such, able to migrate laterally; (3) These hydrocarbons subsequently degraded over several decades, losing mobility and effectively "locking" them in place.	Figure 6; Table 2 and Table 3.	Exact source.	Two shallow hand auger borings in oven area.
Constituents of Concern		The primary constituents of concern are heavier hydrocarbons (TPH-D and TPH-MO). No significant detections of gasoline and gasoline constituents (TPH-G, BTEX, or Oxygenates) have been encountered in soil or groundwater samples from site borings and wells. Also, no significant detections of Naphthalene or Polynuclear Aromatic Compounds (PACs) have been detected in soil or groundwater samples at the Site.	Figure 6. Table 2 and Table 3.	None	n/a
Nature & Extent of Impacts	Impacts in Soil	Soil TPH-D/TPH-MO hydrocarbon impacts are limited primarily to a fairly thin (3-5 feet thick) layer within the sand layer below 14 feet in depth. These soil hydrocarbon impacts extend approximately 75 feet to the south-southwest beneath Market Street and towards 39th Street. The lateral extent of soil impact is fully defined in all direction except to the northeast (upgradient direction).	Figure 4, Figure 5, and Figure 6; Table 2.	None	n/a
	Impacts in Groundwater	The groundwater TPH-D/TPH-MO hydrocarbon plume is smaller than the soil hydrocarbon plume, extending perhaps 20 to 25 feet west-southwest from the presumed source area. The limited extent of groundwater hydrocarbon impacts is clearly due to the nature of the contaminants, which have low solubility in groundwater.	Figure 4, Figure 5, and Figure 6; Table 1, Table 3.	None	n/a
	Impacts in Vapor	Shallow soils beneath the site are clay-dominated, and COCs consist primarily of TPH-D/TPH-MO; thus, vapor hydrocarbon impacts are minimal. Soil gas samples SG-1 and SG-2 showed no significant TPH-G, TPH-D, BTEX, Naphthalene, or Methane.	Figure 6; Table 4	None	n/a
Migration Pathways		A detailed conduit study was conducted for the Site. All identified below-ground utilities are above 12 feet in depth, while soil and groundwater impacts are below 14 feet in depth. Hence; underground utilities both on and surrounding the site do not represent preferential pathways for contaminant migration.	Figure 3	None	n/a

TABLE 5
SITE CONCEPTUAL MODEL (rev 12/14/2015)
3924 Market Street, Oakland, California

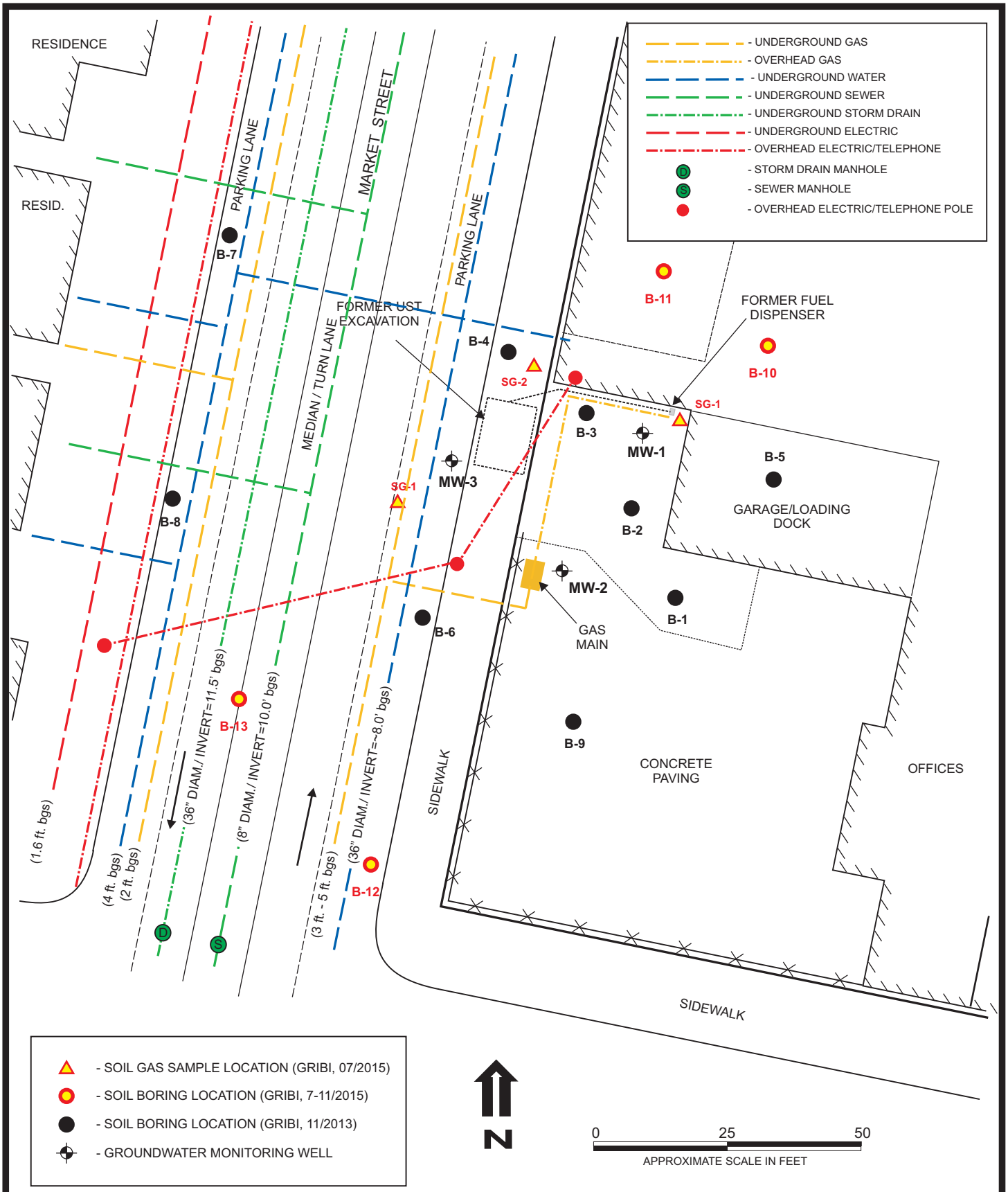
SCM Element	SCM Sub-Element	Description	Figures & Tables Reference	Data Gap	How to Address
Potential Receptors & Risks	Onsite	Potential receptors include future construction workers, who could come into contact with heavy hydrocarbon-impacted soil and groundwater. Risks associated with these potential exposures are expected to be low given the depth of soil and groundwater impacts and non-volatile nature of hydrocarbon impacts. Potable water is and will be supplied by municipal sources for the foreseeable future. Hence, groundwater ingestion is not considered to be a potential receptor.	Figure 8	None	n/a
	Offsite	Potential receptors include future construction workers, who could come into contact with heavy hydrocarbon-impacted soil and groundwater. Risks associated with these potential exposures are expected to be low given the depth of soil and groundwater impacts and non-volatile nature of hydrocarbon impacts.	Figure 8	None	n/a

FIGURES

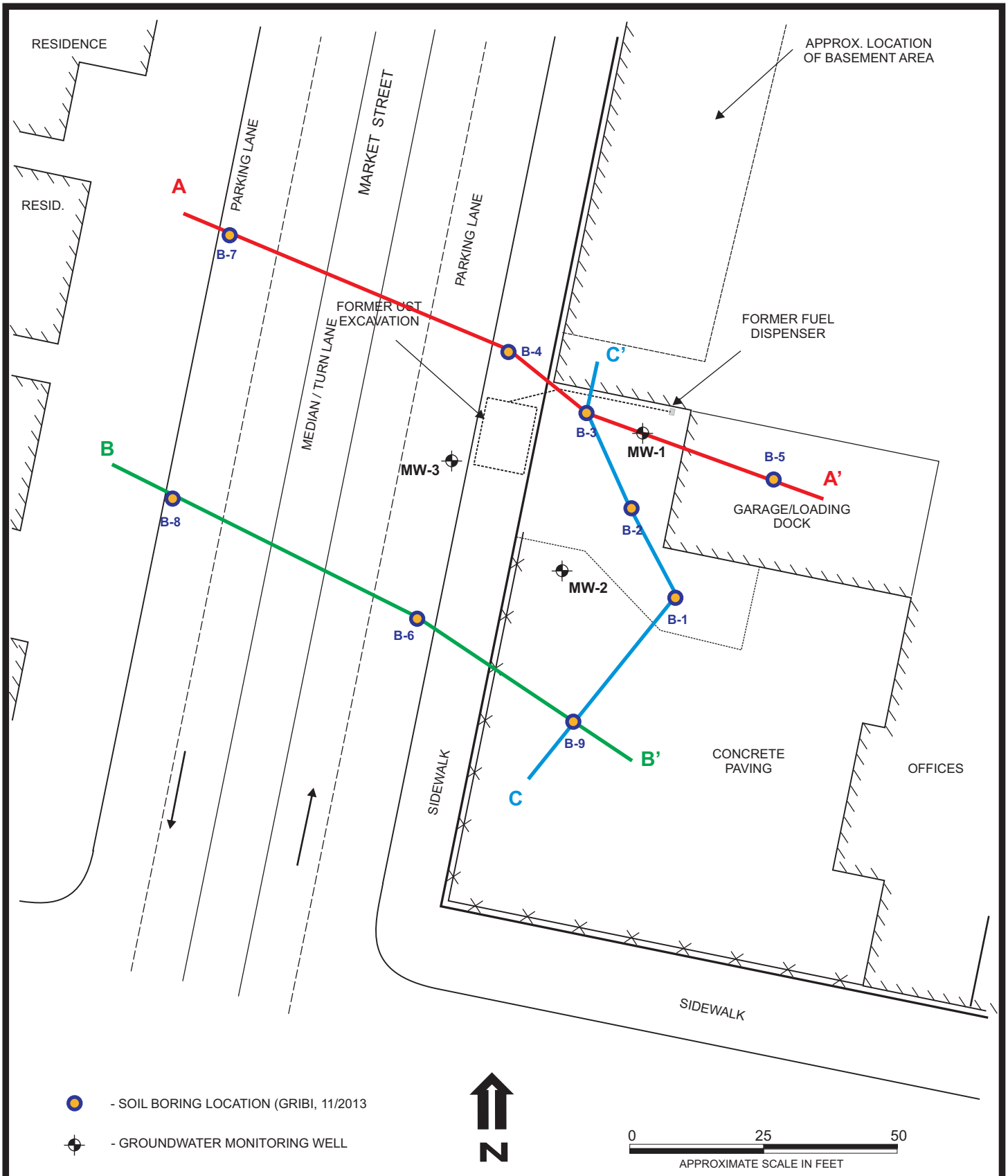


DESIGNED BY:	CHECKED BY: JEG	**SITE VICINITY MAP**	DATE: 12/14/2015	FIGURE: **1**
DRAWN BY: JEG	SCALE:			
PROJECT NO:		3924 MARKET STREET OAKLAND, CALIFORNIA		

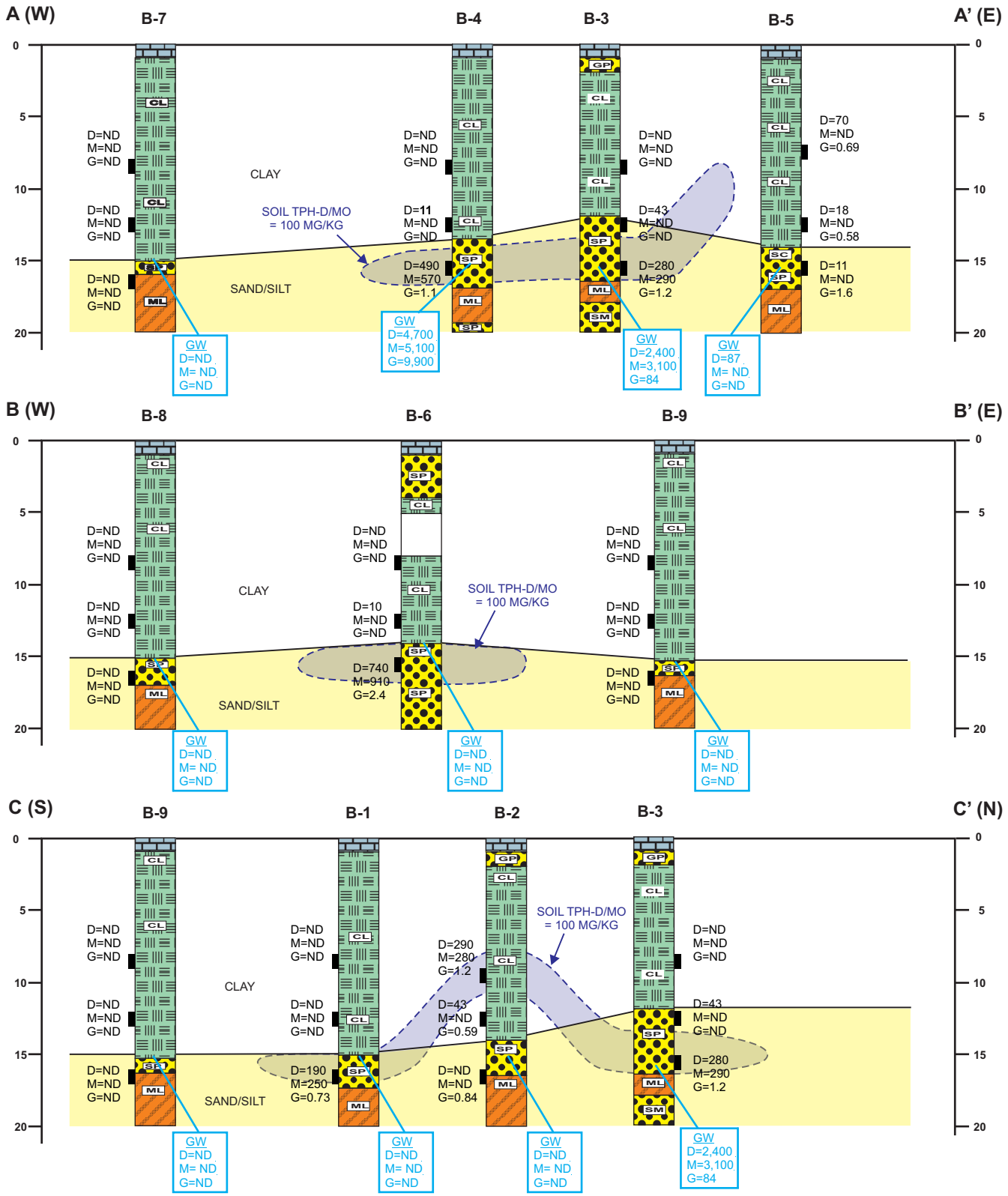
DESIGNED BY:	CHECKED BY: JEG	**SITE PLAN**	DATE: 12/14/2015	FIGURE: **2**
DRAWN BY: JEG	SCALE:	3924 MARKET STREET OAKLAND, CALIFORNIA	GRIBI	



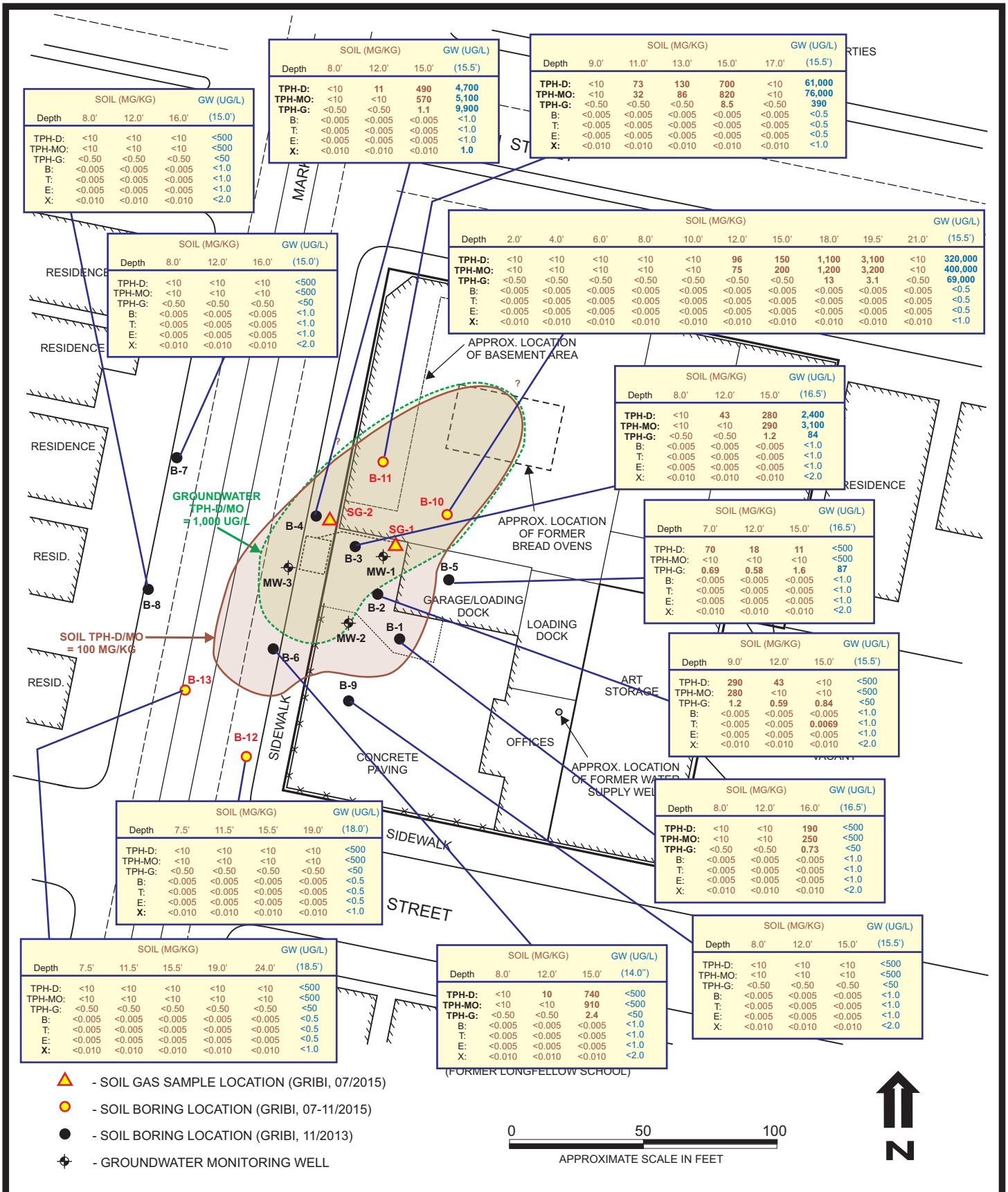
DESIGNED BY:	CHECKED BY: JEG	**UTILITIES AND SOIL BORING LOCATIONS**	DATE: 12/14/2015	FIGURE: 3
DRAWN BY: JEG	SCALE:	3924 MARKET STREET OAKLAND, CALIFORNIA	GRIBI	



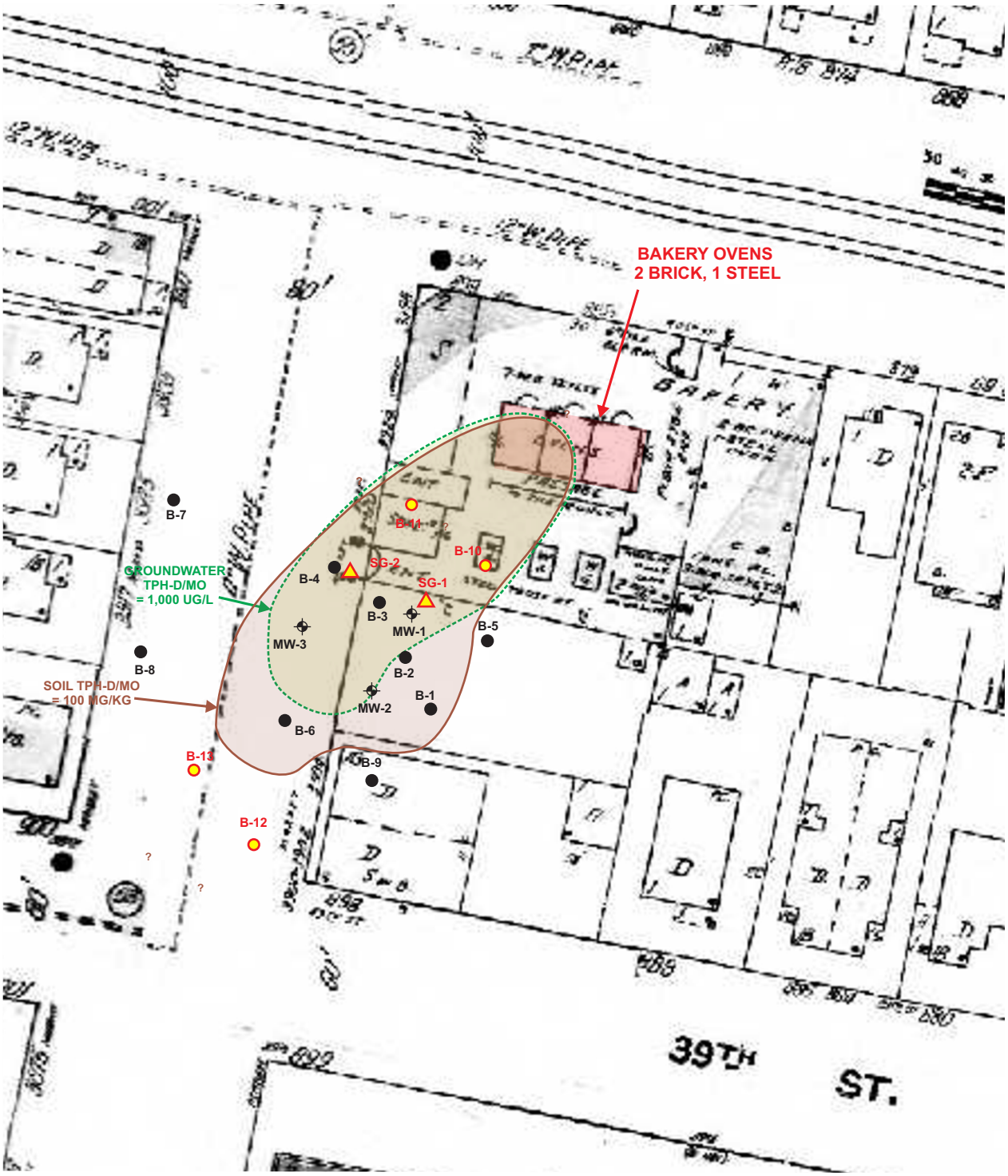
DESIGNED BY:	CHECKED BY: JEG	**CROSS SECTION LOCATION MAP**	DATE: 12/14/2015	FIGURE: 4
DRAWN BY: JEG	SCALE:			
		3924 MARKET STREET OAKLAND, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JEG	**CROSS SECTIONS FROM 2013 BORING DATA**	DATE: 12/14/2015	FIGURE: 5
DRAWN BY: JEG	SCALE:			
		3924 MARKET STREET OAKLAND, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JEG	**SOIL & GRAB GROUNDWATER HYDROCARBON RESULTS**	DATE: 12/14/2015	FIGURE: **6**
DRAWN BY: JEG	SCALE:			
		3924 MARKET STREET OAKLAND, CALIFORNIA		GRIBI



1951 SANBORN FIRE INSURANCE MAP

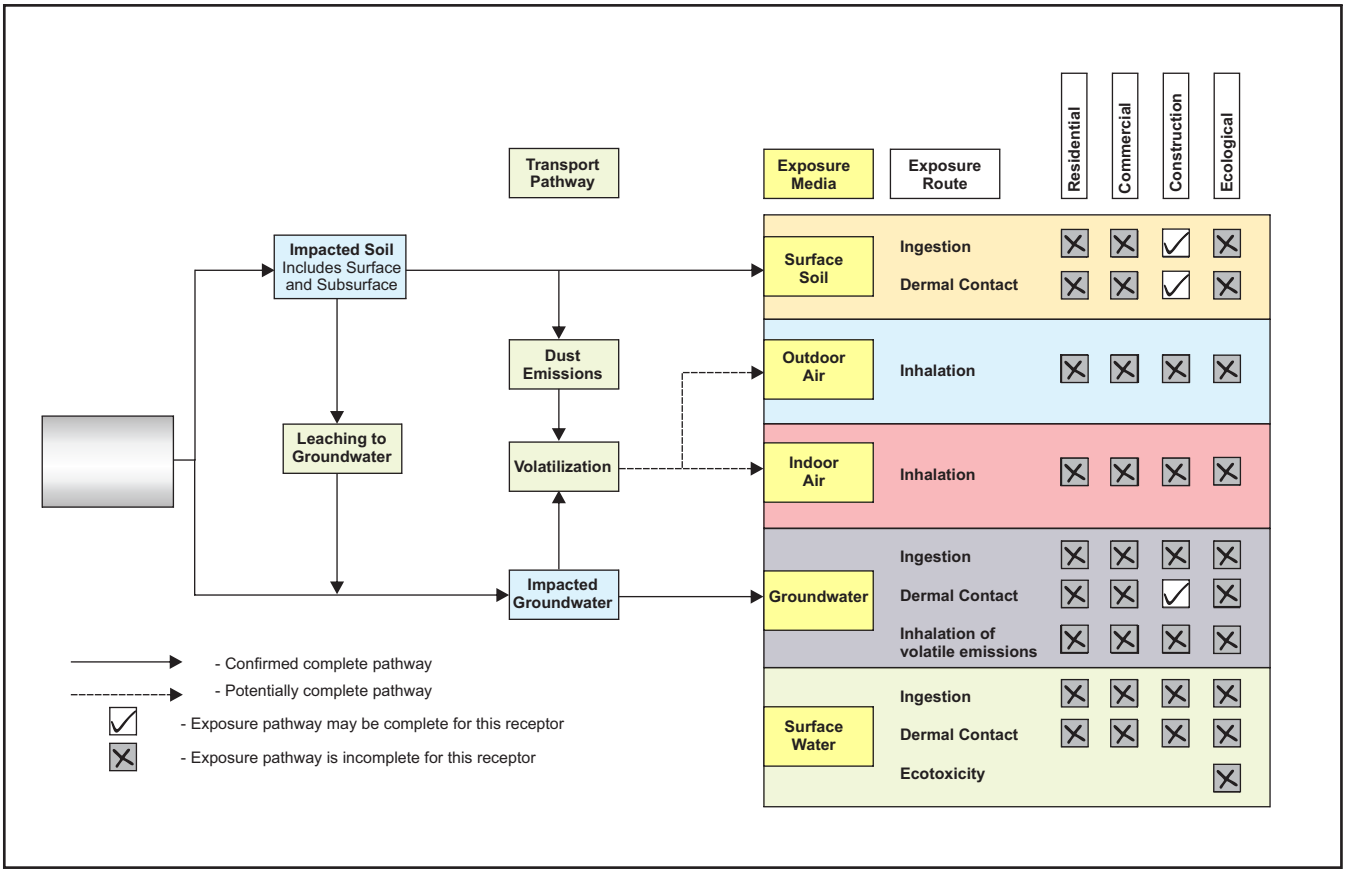
- SOIL GAS SAMPLE LOCATION (GRIBI, 07/2015)
- SOIL BORING LOCATION (GRIBI, 07-11/2015)
- SOIL BORING LOCATION (GRIBI, 11/2013)
- GROUNDWATER MONITORING WELL

0 50 100

APPROXIMATE SCALE IN FEET

N

DESIGNED BY:	CHECKED BY: JEG	**SITE CONCEPTUAL MODEL: POTENTIAL SOURCES**	DATE: 12/14/2015	FIGURE: 7
DRAWN BY: JEG	SCALE:	3924 MARKET STREET OAKLAND, CALIFORNIA	GRIBI	



Notes

1) Soil exposure pathway is complete; however, both surface and subsurface soil concentrations are below ESLs. Thus, risk associated with soil exposure pathway expected to be low.

2) Soil impacted areas are completely paved with concrete or asphalt. Thus, soil exposure via ingestion or direct contact would only be expected in the event of construction-related activities on the site.

3) Groundwater is present below 15 feet in depth. Thus, exposure via direct contact would only be expected in the event of construction-related excavation below 15 feet in depth.

4) Soil gas sample results showed low hydrocarbon impacts. Thus, risk associated via inhalation is low.

DESIGNED BY:	CHECKED BY: JEG	**SITE CONCEPTUAL MODEL: POTENTIAL RECEPTORS & RISKS** 3924 MARKET STREET OAKLAND, CALIFORNIA	DATE: 12/14/2015	FIGURE: **8**
DRAWN BY: JEG	SCALE:		GRIBI	

APPENDIX A

REGULATORY PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/25/2015 By jamesy

Permit Numbers: W2015-0572
Permits Valid from 07/06/2015 to 07/06/2015

Application Id:	1434993989029	**City of Project Site:**	Oakland
Site Location:	3924 Market St, Oakland, CA 94111		
Project Start Date:	07/06/2015	**Completion Date:**	07/06/2015
Assigned Inspector:	Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com		
Applicant:	Gribi - James Gribi 1090 Adams St. Ste K, Benicia, CA 94510	**Phone:**	707-748-7743
Property Owner:	Scott Atthowe c/o Atthowe Fine Arts Facility 3924 Market St, Oakland, CA 94111	**Phone:**	510-654-6816
Client:	** same as Property Owner **		

	Total Due:	$265.00
Receipt Number: WR2015-0319	**Total Amount Paid:**	$265.00
Payer Name : Gribi Associates	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 13 Boreholes
Driller: Gregg - Lic #: 485165 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0572	06/25/2015	10/04/2015	13	2.50 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

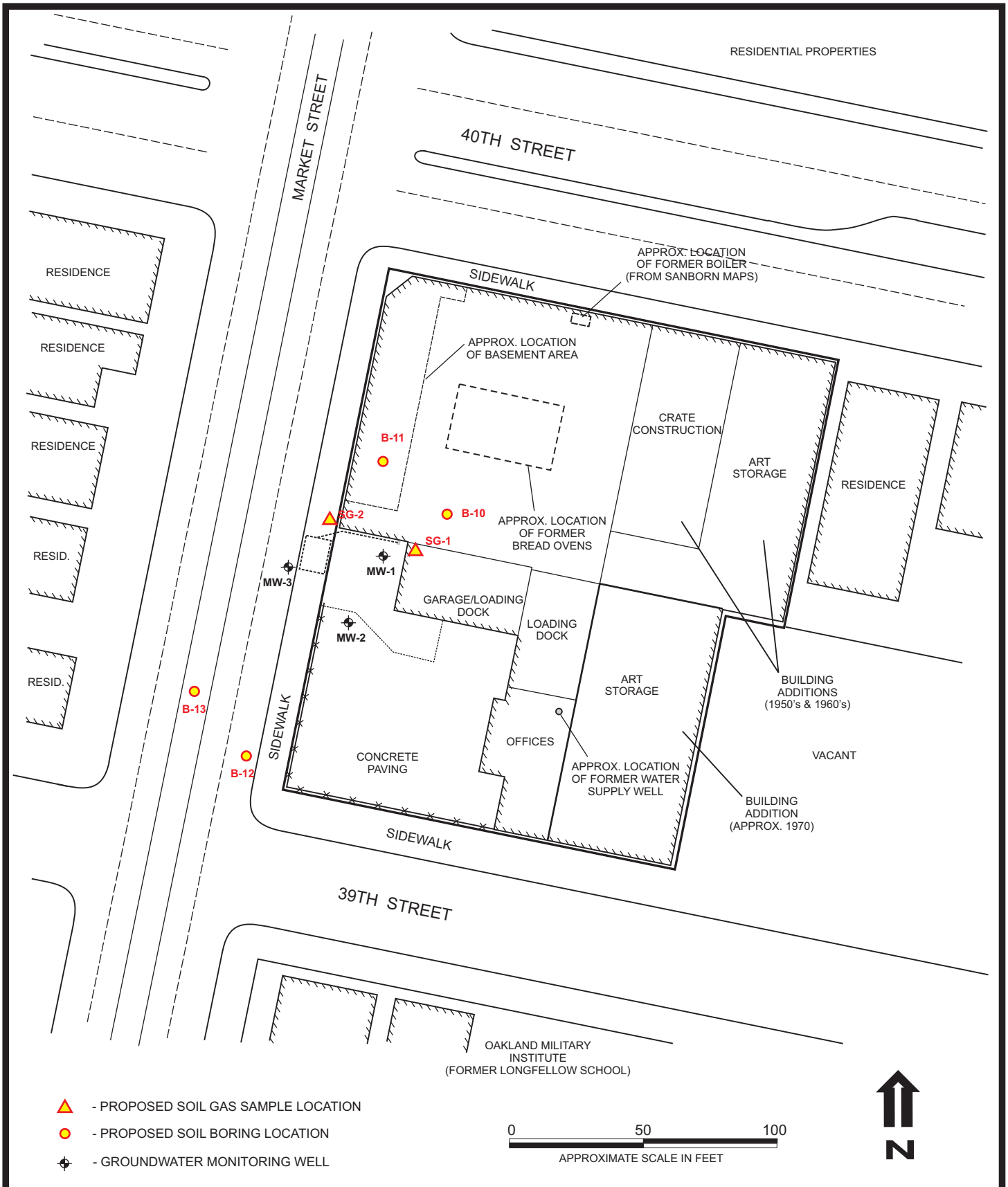
3. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

4. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

5. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



DESIGNED BY:	CHECKED BY: JEG	**PROPOSED BORING LOCATIONS** 3924 MARKET STREET OAKLAND, CALIFORNIA	DATE: 06/16/2015	FIGURE: **2**
DRAWN BY: JEG	SCALE:		GRIBI	

JOB SITE

Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

CHECK REVERSE

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA ▪ 2ND FLOOR ▪ OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-238-3891
FAX: 510-238-2263
TDD: 510-238-3254

Permit No: X1502495 OPW - Excavation **Filed Date:** 10/29/2015

Job Site: 3924 MARKET ST **Schedule Inspection by calling:** [redacted]

Parcel No: 012 096101203

District: Market near 40th ST

For SL; X; and CGS permits see **SPECIAL NOTE** below

Project Description: Soil boring(s) on ~~40th St near Market~~ Street; see site plan.
If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance.
No impact on traffic lane (vehicular or pedestrian) allowed without approved Traffic Control Plan.
Contact: 707 748-7743
Permit valid 90 days.
Separate Obstruction permit required to reserve/block parking lane.
Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.

Related Permits:

	Name	Applicant	Address	Phone	License #
Owner:	ATTHOWE SCOTT C TR		3924 MARKET ST OAKLAND, CA		
Contractor-Employee:	GREGG DRILLING & TESTING INC	X	2726 WALNUT AVENUE SIGNAL HILL, CA	(562) 427-6899	485165

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information

Excavation Type: Private Party
Special Paving Detail Required:
Tree Removal Involved:
Date Street Last Resurfaced:
Holiday Restriction (Nov 1 - Jan 1):
Worker's Compensation Company Name:
Limited Operation Area (7AM-9AM) And (4PM-6PM):
Worker's Compensation Policy #:

Key Dates

Approximate Start Date:
Approximate End Date:

TOTAL FEES TO BE PAID AT FILING: $434.91

Application Fee	~~$70.00~~	Excavation - Private Party Type	$309.00	Records Management Fee	$36.01
Technology Enhancement Fee	$19.90				

Plans Checked By _____ Date _____ Permit Issued By _____ Date 10-29

Finalized By _____ Date _____

SPECIAL NOTE

- For SL; X; and CGS permits Call PWA INSPECTION prior to start: 510-238-3651 or visit 4th FLOOR.
- SL and X permits valid 90 days; CGS permits valid 30 days

CITY OF OAKLAND

Permit No: X1502495 **Parcel No:** 012 096101203 **Job Site:** 3924 MARKET ST

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

CONSTRUCTION LENDING AGENCY DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 8172, Civil Code).

Lender's Name _____

Branch Designation _____

Lender's Address _____

WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

RRP ACKNOWLEDGMENT

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA or use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices. As the contractor preparing to do work on a Pre-1978 building, I have read the explanation of the RRP Rule and will ensure that any paint disturbing work will be done by or supervised by an RRP certified individual(s). Failure to follow this rule may result in enforcement action by the EPA. For additional information on complying with lead safety requirements, contact the Alameda County Healthy Homes Department at (510) 567-8280 or 1-800-253-2372 or visit http://www.achhd.org.

HAZARDOUS MATERIALS DECLARATION

I hereby affirm that the intended occupancy ☐WILL ☐ WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, and 25534 of the Health and Safety Code, as well as filing instructions were made available to you).

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officials, officers, employees, representatives, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of the public right-of-way, public easement, or any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted I further certify that I am the owner of the property involved in this permit or that I am fully authorized by the owner to access the property and perform the work authorized by this permit.

Name _____

Signature _____

☐ Contractor, or ☐Contractor's Agent Date

NOTICE: No activities related to the approved work, including storage/use of materials, is allowed within the public right-of-way without an encroachment permit. Dust control measures shall be used throughout all phases of construction.

ADDRESS: _____

DIST: _____

Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

JOB SITE

CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA ▪ 2ND FLOOR ▪ OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-238-3891
FAX: 510-238-2263
TDD: 510-238-3254

Permit No: OB1501160 Obstruction
Filed Date: 10/29/2015

Job Site: 3924 MARKET ST
Schedule Inspection by calling: 510-238-3444

Parcel No: 012 096101203

District:

Project Description: Divert 200' traffic on Market St per TSD-15-0199 and reserve 1 non-metered parking space (Note: NO FEE per X1502495. No impact on sidewalk.
To Have Illegally Parked Vehicle Ticketed Call 510-777-3333. Applicant arranges towing. For Towed Vehicle: Call 510-238-3021.
Re: Soil boring(s) on Market St near 40th Street; see site plan.
If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum $5,800.00 fine for non-compliance.
No impact on traffic lane (vehicular or pedestrian) allowed without approved Traffic Control Plan.
Contact: 707 748-7743
Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.

Related Permits: X1502495

	Name	Applicant	Address	Phone	License #
Owner:	ATTHOWE SCOTT C TR		3924 MARKET ST OAKLAND, CA		
Contractor-Employee:	GREGG DRILLING & TESTING INC	X	2726 WALNUT AVENUE SIGNAL HILL, CA	(562) 427-6899	485165

PERMIT DETAILS: Building/Public Use/Activity/Obstructions

Work Information

Start Date: 11/02/2015
End Date: 11/02/2015

Obstruction Permit Type: Short Term (Max 14 Days)
Number of Meters (Metered Area):
Length Of Obstruction (Unmetered Area): 200

TOTAL FEES TO BE PAID AT FILING: $236.39

Application Fee	$70.00	Records Management Fee	$19.57	Short Term Permits	$136.00
Technology Enhancement Fee	$10.82				

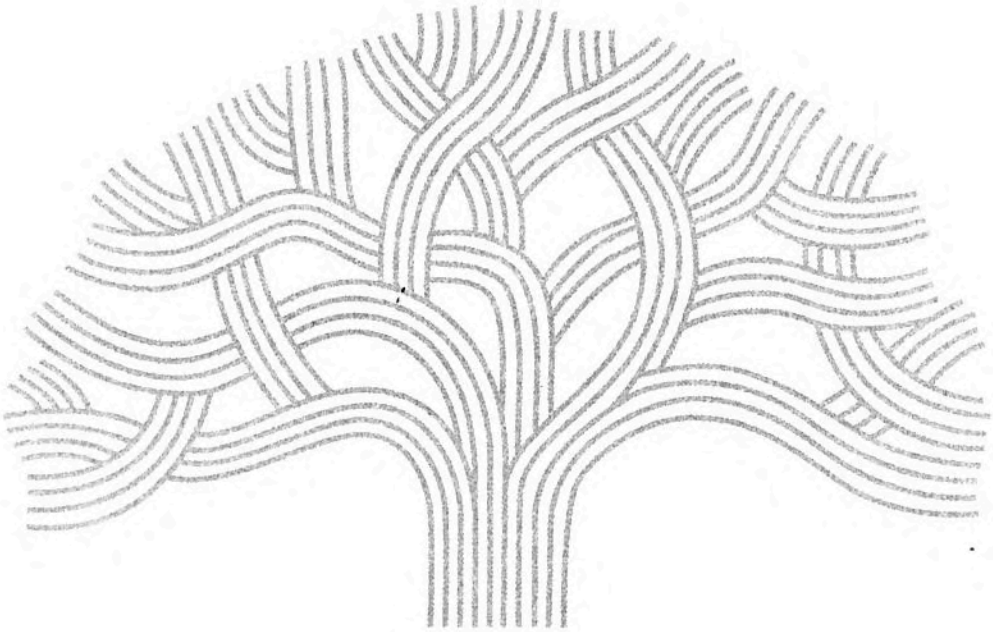
Plans Checked By _____ Date _____ Permit Issued By _____ Date 10.29

Finalized By _____ Date _____

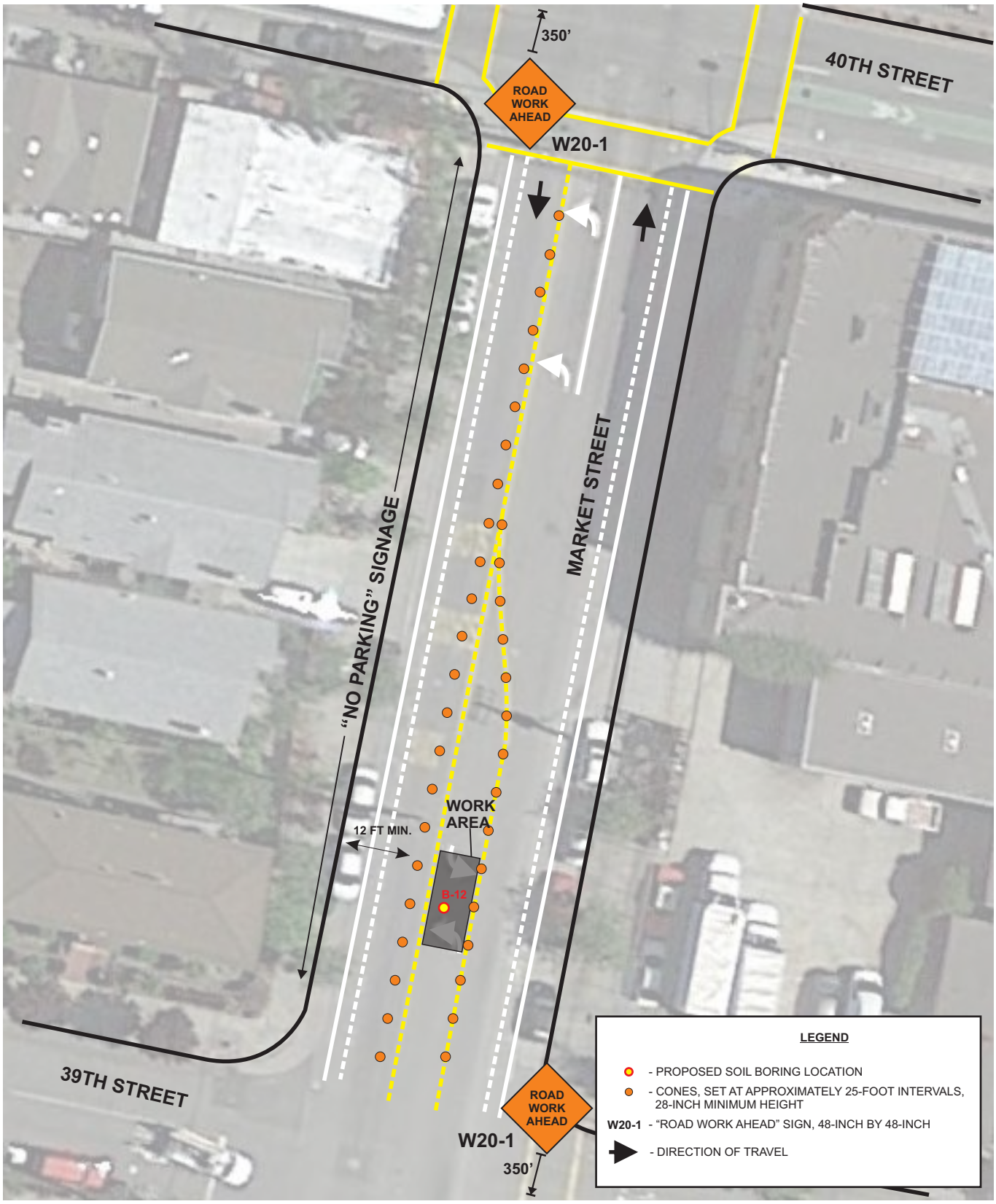
CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

DIST: _____ ADDRESS: _____



CITY OF OAKLAND



DESIGNED BY:	CHECKED BY: JEG	**TRAFFIC CONTROL PLAN**	DATE: 09/21/2015	FIGURE: **2**
DRAWN BY: JEG	SCALE:	3924 MARKET STREET OAKLAND, CALIFORNIA	GRIBI	

APPENDIX B

SOIL BORING LOGS

LOG OF BORING

BORING NUMBER : **B-10**
BORING LOCATION:
PROJECT NAME: 3924 MARKET STREET UST SITE
BORING TYPE: SOIL BORING
LOGGED BY: M. ROSEMAN
START DATE: 7/15/15 COMPLETION DATE: 7/15/15

GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING
DRILLING METHOD: DIRECT PUSH
BOREHOLE DIAMETER: 2.5 INCHES
COMPLETION METHOD: NA
BORING TOTAL DEPTH: 21.0 FEET
GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	WELL INSTALLATION & CONSTRUCTION
	B-10-2.0 8:45	2.0 FT.		PID = 0		0.0 - 1.0 ft. Concrete and base rock 1.0 - 2.5 ft. Soil and Gravel (fill), fine to medium grain concrete, no oil	
	B-10-4.0 8:50	4.0 FT.		PID = 0	CL	2.5 - 4.0 ft. **Silty Clay (CL)** Brown, slight moisture, very stiff, no hydrocarbon odors or staining.	
5	B-10-6.0 8:55	6.0 FT.		PID = 0	CL	4.0 - 8.0 ft. **Silty Clay (CL)** Dark brown, slight moisture to moist, very stiff, silt content decreasing with depth, no hydrocarbon odors or staining.	
	B-10-8.0 9:00	8.0 FT.			CL	8.0 - 12.0 ft. **Silty Clay (CL)** Dark brown, slight moisture to moist, very stiff, silt content decreasing with depth, olive-grey staining begins at 10 ft.	
10	B-10-10.0 9:05	10.0 FT.		PID = 0			
	B-10-12.0 9:10	12.0 FT.			CL	12.0 - 15.0 ft. **Silty Clay (CL)** Dark brown, slight moisture to moist, very stiff, staining with slight odor, increasing silt	
15	B-10-15.0 9:15	15.0 FT.		PID = 4	SC	15.0 - 18.0 ft. **Clayey Sand (SC)** Olive-green (stained), fine to coarse grained, some fine gravel, moderate hydrocarbon odor, wet/product saturated at 17.5 ft.	
	B-10-18.0 9:25	18.0 FT.		▽ PID = 2	SC	18.0 - 20.5 ft. **Clayey Sand (SC)** Olive-green (stained), fine to coarse grained, some fine gravel, staining with moderate odor	
20	B-10-19.5 9:30	19.5 FT.					
	B-10-21.0 9:35	21.0 FT.		PID = 0	SC	20.5 - 21.0 ft. **Clayey Sand (SC)** Brown with slight staining, very fine grain, silty, slight hydrocarbon odor	
25						TOTAL DEPTH: 21 FEET BGS. GROUNDWATER SAMPLE B-10-GW WAS TAKEN AT 11:15	

LOG OF BORING

BORING NUMBER : **B-11**
BORING LOCATION: BASEMENT
PROJECT NAME: 3924 MARKET STREET UST SITE
BORING TYPE: SOIL BORING
LOGGED BY: M. ROSEMAN
START DATE: 7/15/15 COMPLETION DATE: 7/15/15

GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING
DRILLING METHOD: HAND AUGER
BOREHOLE DIAMETER: 2.5 INCHES
COMPLETION METHOD: NA
BORING TOTAL DEPTH: 18.5 FEET
GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	WELL INSTALLATION & CONSTRUCTION
5						0.0 - 8.0 ft. Drilling was done 8.0 ft. bellow the Street surface in the basement	
10	B-11-9.0 10:00	9.0 FT.		PID = 0		8.0 - 9.0 ft. Concrete and base rock	
	B-11-11.0 10:10	11.0 FT.			CL	9.0 - 14.0 ft. **Silty Clay (CL)** Slight hydrocarbon staining and odors.	
	B-11-13.0 10:20	13.0 FT.					
15	B-11-15.0 10:30	15.0 FT.		PID = 0	SC	14.0 - 17.0 ft. **Clayey Sand (SC)** Slight to moderate hydrocarbon odors, product/water at 17 ft.	
	B-11-17.0 10:40	17.0 FT.		▽ PID = 0	ML	17.0 - 18.5 ft. **Clayey Silt (ML)** Brown, moderate staining, slight hydrocarbon odors.	
20						TOTAL DEPTH: 18.5 FEET BGS. GROUNDWATER SAMPLE B-11-GW WAS TAKEN AT 12:00	
25							

LOG OF BORING

BORING NUMBER : **B-12**
BORING LOCATION:
PROJECT NAME: 3924 MARKET STREET UST SITE
BORING TYPE: SOIL BORING
LOGGED BY: M. ROSMAN
START DATE: 11/02/15 COMPLETION DATE: 11/02/15

GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING
DRILLING METHOD: DIRECT PUSH
BOREHOLE DIAMETER: 2.5 INCHES
COMPLETION METHOD: NA
BORING TOTAL DEPTH: 20.0 FEET
GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	WELL INSTALLATION & CONSTRUCTION
						0 - 1 ft. Concrete base rock	
					SM	1 - 5 ft. **Silty Sand (SM)** Hand-cleared, Orange-brown, moist, very fine to fine grain, no hydrocarbon odors or staining.	
5					SM	5 - 11 ft. **Silty Sand (SM)** Grey-brown, moist, very fine to medium grain, no hydrocarbon odors or staining, wet and soft at 10.5 - 11.0 ft.	
	B-12-7.5 11:20	7.5 FT.		PID = 0			
10					CL	11 - 15 ft. **Silty Clay (CL)** Brown, moist, stiff, no hydrocarbon odors or staining.	
	B-12-11.5 11:25	11.5 FT.		PID = 0			
15					CL	15 - 18 ft. **Sandy Clay (CL)** Brown, moist, stiff, very fine to medium grain, some coarse grain, angular. no hydrocarbon odors or staining.	
	B-12-15.5 11:30	15.5 FT.		PID = 0			
				▽	SM	18 - 20 ft. **Silty Sand (SM)** Brown, moist to wet, very fine to fine grain, no hydrocarbon odors or staining.	
20	B-12-19.0 11:35	19.0 FT.		PID = 0			
						TOTAL DEPTH: 20.0 FEET BGS. GROUNDWATER SAMPLE B-12-W WAS TAKEN AT 11:50	
25							

LOG OF BORING

BORING NUMBER : **B-13**
BORING LOCATION:
PROJECT NAME: 3924 MARKET STREET UST SITE
BORING TYPE: SOIL BORING
LOGGED BY: J. GRIBI
START DATE: 11/02/15 COMPLETION DATE: 11/02/15

GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING
DRILLING METHOD: DIRECT PUSH
BOREHOLE DIAMETER: 2.5 INCHES
COMPLETION METHOD: NA
BORING TOTAL DEPTH: 25.0 FEET
GROUNDWATER DEPTH:

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	WELL INSTALLATION & CONSTRUCTION
						0 - 1.5 ft. Asphalt and base rock	
					CL	1.5 - 6.0 ft. **Clay (CL)** Dark grey, silty, firm, moist, no hydrocarbon odors or staining	
5							
	B-13-7.5 09:10	7.5 FT.		PID = 0	ML	6.0 - 10 ft. **Clayey Silt (ML)** Olive, moist, firm, no hydrocarbon odors or staining	
10	B-13-11.5 09:15	11.5 FT.		PID = 0	ML	10 - 16.0 ft. **Gravelly Silt (ML)** Light brown, sandy, firm, dense, dry to moist, no hydrocarbon odors or staining	
15	B-13-15.5 09:20	15.5 FT.		PID = 0	CL	16.0 - 18.5 ft. **Clay (CL)** Brown, slightly silty, firm, dense, no hydrocarbon odors or staining	
	B-13-19.0 09:30	19.0 FT.		▽ PID = 0	GP	18.5 - 25.0 ft. **Sandy Gravel (GP)** Brown, grades to gravelly sand, loose to firm, wet, no hydrocarbon odors or staining	
20							
	B-13-24.0 09:40	24.0 FT.		PID = 0			
25						TOTAL DEPTH: 25.0 FEET BGS. GROUNDWATER SAMPLE B-13-W WAS TAKEN AT 10:00	

APPENDIX C

PHOTOS OF RESIDUAL PRODUCT IN SITE WELLS

SITE PHOTOS OF RESIDUAL PRODUCT DURING ATTEMPTS TO REMOVE PRODUCT

APPENDIX D

LABORATORY DATA REPORTS AND CHAIN OF CUSTODY RECORDS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

13 August 2015

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510

RE: Atthowe-Market Street

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 09:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-10-2.0	T151699-01	Soil	07/15/15 08:45	07/17/15 09:10
B-10-4.0	T151699-02	Soil	07/15/15 08:50	07/17/15 09:10
B-10-6.0	T151699-03	Soil	07/15/15 08:55	07/17/15 09:10
B-10-8.0	T151699-04	Soil	07/15/15 09:00	07/17/15 09:10
B-10-10.0	T151699-05	Soil	07/15/15 09:05	07/17/15 09:10
B-10-12.0	T151699-06	Soil	07/15/15 09:10	07/17/15 09:10
B-10-15.0	T151699-07	Soil	07/15/15 09:15	07/17/15 09:10
B-10-18.0	T151699-08	Soil	07/15/15 09:25	07/17/15 09:10
B-10-19.5	T151699-09	Soil	07/15/15 09:30	07/17/15 09:10
B-10-21.0	T151699-10	Soil	07/15/15 09:35	07/17/15 09:10
B-11-9.0	T151699-11	Soil	07/15/15 10:00	07/17/15 09:10
B-11-11.0	T151699-12	Soil	07/15/15 10:10	07/17/15 09:10
B-11-13.0	T151699-13	Soil	07/15/15 10:20	07/17/15 09:10
B-11-15.0	T151699-14	Soil	07/15/15 10:30	07/17/15 09:10
B-11-17.0	T151699-15	Soil	07/15/15 10:40	07/17/15 09:10
SG-1-5.0	T151699-16	Soil	07/15/15 12:55	07/17/15 09:10
SG-2-5.0	T151699-17	Soil	07/15/15 13:15	07/17/15 09:10
MW-1	T151699-18	Water	07/15/15 09:30	07/17/15 09:10
MW-2	T151699-19	Water	07/15/15 08:30	07/17/15 09:10
MW-3	T151699-20	Water	07/15/15 10:15	07/17/15 09:10
B-10-GW	T151699-21	Water	07/15/15 11:15	07/17/15 09:10
B-11-GW	T151699-22	Water	07/15/15 12:00	07/17/15 09:10

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.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

DETECTIONS SUMMARY

Sample ID: B-10-2.0 **Laboratory ID:** T151699-01

No Results Detected

Sample ID: B-10-4.0 **Laboratory ID:** T151699-02

No Results Detected

Sample ID: B-10-6.0 **Laboratory ID:** T151699-03

No Results Detected

Sample ID: B-10-8.0 **Laboratory ID:** T151699-04

No Results Detected

Sample ID: B-10-10.0 **Laboratory ID:** T151699-05

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**35**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**40**	10	mg/kg	EPA 8015C	O-05
Chrysene	**7.3**	5.0	ug/kg	EPA 8270C SIM	

Sample ID: B-10-12.0 **Laboratory ID:** T151699-06

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**96**	10	mg/kg	EPA 8015C	O-05

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

Sample ID: B-10-12.0 **Laboratory ID:** T151699-06

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**75**	10	mg/kg	EPA 8015C	O-05
Anthracene	**10**	5.0	ug/kg	EPA 8270C SIM	
Chrysene	**25**	5.0	ug/kg	EPA 8270C SIM	
Fluorene	**38**	10	ug/kg	EPA 8270C SIM	
Phenanthrene	**42**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**60**	10	ug/kg	EPA 8270C SIM	

Sample ID: B-10-15.0 **Laboratory ID:** T151699-07

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**150**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**200**	10	mg/kg	EPA 8015C	O-05
Acenaphthene	**34**	10	ug/kg	EPA 8270C SIM	
Anthracene	**29**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) anthracene	**14**	5.0	ug/kg	EPA 8270C SIM	
Chrysene	**39**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**74**	10	ug/kg	EPA 8270C SIM	

Sample ID: B-10-18.0 **Laboratory ID:** T151699-08

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**32**	10	mg/kg	EPA 8015C	O-05
C13-C28 (DRO)	**1100**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**1200**	10	mg/kg	EPA 8015C	O-05
Naphthalene	**68**	5.0	ug/kg	EPA 8260B	
C6-C12 (GRO)	**13000**	500	ug/kg	EPA 8260B	
Acenaphthene	**390**	10	ug/kg	EPA 8270C SIM	
Anthracene	**760**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) anthracene	**390**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) pyrene	**89**	10	ug/kg	EPA 8270C SIM	
Dibenz (a,h) anthracene	**13**	5.0	ug/kg	EPA 8270C SIM	
Fluorene	**430**	10	ug/kg	EPA 8270C SIM	
Phenanthrene	**680**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**810**	10	ug/kg	EPA 8270C SIM	

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Sample ID: B-10-19.5 **Laboratory ID:** T151699-09

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**130**	10	mg/kg	EPA 8015C	O-05
C13-C28 (DRO)	**3100**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**3200**	10	mg/kg	EPA 8015C	O-05
Naphthalene	**41**	5.0	ug/kg	EPA 8260B	
C6-C12 (GRO)	**3100**	500	ug/kg	EPA 8260B	
Acenaphthene	**530**	10	ug/kg	EPA 8270C SIM	
Anthracene	**850**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) anthracene	**430**	5.0	ug/kg	EPA 8270C SIM	
Benzo (k) fluoranthene	**89**	10	ug/kg	EPA 8270C SIM	
Benzo (a) pyrene	**95**	10	ug/kg	EPA 8270C SIM	
Chrysene	**95**	5.0	ug/kg	EPA 8270C SIM	
Fluorene	**460**	10	ug/kg	EPA 8270C SIM	
Phenanthrene	**980**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**880**	10	ug/kg	EPA 8270C SIM	

Sample ID: B-10-21.0 **Laboratory ID:** T151699-10

No Results Detected

Sample ID: B-11-9.0 **Laboratory ID:** T151699-11

No Results Detected

Sample ID: B-11-11.0 **Laboratory ID:** T151699-12

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**73**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**32**	10	mg/kg	EPA 8015C	O-05
Anthracene	**17**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**59**	10	ug/kg	EPA 8270C SIM	

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Sample ID: B-11-13.0 **Laboratory ID:** T151699-13

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**130**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**86**	10	mg/kg	EPA 8015C	O-05
Acenaphthene	**60**	10	ug/kg	EPA 8270C SIM	
Anthracene	**32**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) anthracene	**38**	5.0	ug/kg	EPA 8270C SIM	
Chrysene	**21**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**140**	10	ug/kg	EPA 8270C SIM	

Sample ID: B-11-15.0 **Laboratory ID:** T151699-14

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**700**	10	mg/kg	EPA 8015C	O-05
C29-C40 (MORO)	**820**	10	mg/kg	EPA 8015C	O-05
Naphthalene	**33**	5.0	ug/kg	EPA 8260B	
C6-C12 (GRO)	**8500**	500	ug/kg	EPA 8260B	
Acenaphthene	**270**	10	ug/kg	EPA 8270C SIM	
Anthracene	**120**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) anthracene	**260**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) pyrene	**70**	10	ug/kg	EPA 8270C SIM	
Chrysene	**120**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**350**	10	ug/kg	EPA 8270C SIM	

Sample ID: B-11-17.0 **Laboratory ID:** T151699-15

No Results Detected

Sample ID: SG-1-5.0 **Laboratory ID:** T151699-16

No Results Detected

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Sample ID: SG-2-5.0 **Laboratory ID:** T151699-17

No Results Detected

Sample ID: MW-1 **Laboratory ID:** T151699-18

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**2.5**	0.050	mg/l	EPA 8015C	O-05
C29-C40 (MORO)	**1.3**	0.10	mg/l	EPA 8015C	O-05
C6-C12 (GRO)	**130**	50	ug/l	EPA 8260B	
Acenaphthene	**5.32**	1.00	ug/l	EPA 8270C SIM	
Anthracene	**2.84**	1.00	ug/l	EPA 8270C SIM	
Benzo (a) anthracene	**3.30**	1.00	ug/l	EPA 8270C SIM	
Chrysene	**1.86**	1.00	ug/l	EPA 8270C SIM	
Fluorene	**2.60**	1.00	ug/l	EPA 8270C SIM	
Pyrene	**9.96**	1.00	ug/l	EPA 8270C SIM	

Sample ID: MW-2 **Laboratory ID:** T151699-19

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**0.44**	0.050	mg/l	EPA 8015C	O-05
C29-C40 (MORO)	**0.34**	0.10	mg/l	EPA 8015C	O-05
Pyrene	**1.82**	1.00	ug/l	EPA 8270C SIM	

Sample ID: MW-3 **Laboratory ID:** T151699-20

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**10**	0.050	mg/l	EPA 8015C	O-05
C29-C40 (MORO)	**7.9**	0.10	mg/l	EPA 8015C	O-05
C6-C12 (GRO)	**190**	50	ug/l	EPA 8260B	
Acenaphthene	**11.9**	1.00	ug/l	EPA 8270C SIM	
Anthracene	**7.56**	1.00	ug/l	EPA 8270C SIM	
Benzo (a) anthracene	**15.4**	1.00	ug/l	EPA 8270C SIM	
Benzo (a) pyrene	**4.34**	1.00	ug/l	EPA 8270C SIM	
Chrysene	**6.04**	1.00	ug/l	EPA 8270C SIM	
Fluorene	**5.74**	1.00	ug/l	EPA 8270C SIM	

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Sample ID: MW-3 **Laboratory ID:** T151699-20

Analyte	Result	Reporting Limit	Units	Method	Notes
Pyrene	**36.1**	1.00	ug/l	EPA 8270C SIM	

Sample ID: B-10-GW **Laboratory ID:** T151699-21

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**26**	0.50	mg/l	EPA 8015C	O-05
C13-C28 (DRO)	**320**	0.50	mg/l	EPA 8015C	O-05
C29-C40 (MORO)	**400**	1.0	mg/l	EPA 8015C	O-05
Naphthalene	**41**	1.0	ug/l	EPA 8260B	
C6-C12 (GRO)	**69000**	1200	ug/l	EPA 8260B	

Sample ID: B-11-GW **Laboratory ID:** T151699-22

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**3.0**	0.050	mg/l	EPA 8015C	O-05
C13-C28 (DRO)	**61**	0.050	mg/l	EPA 8015C	O-05
C29-C40 (MORO)	**76**	0.10	mg/l	EPA 8015C	O-05
Naphthalene	**4.2**	1.0	ug/l	EPA 8260B	
C6-C12 (GRO)	**390**	50	ug/l	EPA 8260B	
Acenaphthene	**3.28**	1.00	ug/l	EPA 8270C SIM	
Anthracene	**1.36**	1.00	ug/l	EPA 8270C SIM	
Benzo (a) anthracene	**1.56**	1.00	ug/l	EPA 8270C SIM	
Chrysene	**2.92**	1.00	ug/l	EPA 8270C SIM	
Pyrene	**4.10**	1.00	ug/l	EPA 8270C SIM	

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B-10-2.0

T151699-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.3 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*73.5 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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B-10-2.0

T151699-01 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*107 %*	*18-137*		*"*	*"*	*"*	*"*	

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B-10-4.0

T151699-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.2 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95.6 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-4.0

T151699-02 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*105 %*	*18-137*		*"*	*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-6.0

T151699-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.5 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*86.6 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-6.0

T151699-03 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*107 %*	*18-137*		*"*	*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-8.0

T151699-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*93.2 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-8.0

T151699-04 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*104 %*	*18-137*		*"*	*"*	*"*	*"*	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-10.0

T151699-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	**35**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**40**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*92.8 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	**7.3**	5.0	"	"	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-10.0

T151699-05 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*116 %*		*18-137*	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-12.0

T151699-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	**96**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**75**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.7 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93.1 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**10**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	**25**	5.0	"	"	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-12.0

T151699-06 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	**38**	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	**42**	5.0	"	"	"	"	"	"	
Pyrene	**60**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*110 %*		*18-137*	"	"	"	"	

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Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-15.0

T151699-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	**150**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**200**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*95.6 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95.8 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**34**	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**29**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	**14**	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	**39**	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-15.0

T151699-07 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	**74**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*113 %*		*18-137*		*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-18.0

T151699-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	**32**	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	**1100**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**1200**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*97.9 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	**68**	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	**13000**	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95.2 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**390**	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**760**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	**390**	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	**89**	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-18.0

T151699-08 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	**13**	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	**430**	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	**680**	5.0	"	"	"	"	"	"	
Pyrene	**810**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*110 %*		*18-137*	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-19.5

T151699-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	**130**	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	**3100**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**3200**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*109 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	**41**	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	**3100**	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*81.4 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**530**	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**850**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	**430**	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	**89**	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	**95**	10	"	"	"	"	"	"	
Chrysene	**95**	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

Katherine RunningCrane, Project Manager

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-19.5

T151699-09 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluorene	**460**	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	**980**	5.0	"	"	"	"	"	"	
Pyrene	**880**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*105 %*		*18-137*	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-21.0

T151699-10 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.7 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*90.6 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-21.0

T151699-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*116 %*		*18-137*	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-9.0

T151699-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/08/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*96.2 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*90.9 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-9.0

T151699-11 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*148 %*		*18-137*	*"*	*"*	*"*	*"*	*S-11*

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-11.0

T151699-12 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/09/15	EPA 8015C	O-05
C13-C28 (DRO)	**73**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**32**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*96.6 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**17**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-11.0

T151699-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	**59**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*114 %*		*18-137*	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-13.0

T151699-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/09/15	EPA 8015C	O-05
C13-C28 (DRO)	**130**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**86**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*104 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**60**	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**32**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	**38**	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	**21**	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-13.0

T151699-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	**140**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*112 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-15.0

T151699-14 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/09/15	EPA 8015C	O-05
C13-C28 (DRO)	**700**	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**820**	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*101 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	**33**	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	**8500**	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*90.9 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**270**	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**120**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	**260**	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	**70**	10	"	"	"	"	"	"	
Chrysene	**120**	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-15.0

T151699-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	**350**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*112 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-17.0

T151699-15 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/09/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.0 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93.4 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-17.0

T151699-15 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*111 %*		*18-137*	*"*	*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

SG-1-5.0

T151699-16 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/09/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*94.7 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95.1 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

SG-1-5.0

T151699-16 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*102 %*	*18-137*		*"*	*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

SG-2-5.0

T151699-17 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5080715	08/07/15	08/09/15	EPA 8015C	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*96.8 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.0	ug/kg	1	5072033	07/20/15	07/24/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96.5 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

SG-2-5.0

T151699-17 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	5.0	ug/kg	1	5072307	07/23/15	07/24/15	EPA 8270C SIM	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*137 %*		*18-137*	*"*	*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

MW-1

T151699-18 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	0.050	mg/l	1	5081116	08/11/15	08/13/15	EPA 8015C	O-05
C13-C28 (DRO)	**2.5**	0.050	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**1.3**	0.10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*74.4 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	1.0	ug/l	1	5072043	07/20/15	07/21/15	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
C6-C12 (GRO)	**130**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96.1 %*	*81.1-136*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**5.32**	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	**2.84**	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	**3.30**	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.00	"	"	"	"	"	"	
Chrysene	**1.86**	1.00	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

MW-1

T151699-18 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Fluoranthene	ND	1.00	"	"	"	"	"	"	
Fluorene	**2.60**	1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	ND	1.00	"	"	"	"	"	"	
Pyrene	**9.96**	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*97.3 %*		*33-141*	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

MW-2

T151699-19 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	0.050	mg/l	1	5081116	08/11/15	08/13/15	EPA 8015C	O-05
C13-C28 (DRO)	**0.44**	0.050	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**0.34**	0.10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*83.4 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	1.0	ug/l	1	5072043	07/20/15	07/21/15	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.8 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*97.0 %*	*81.1-136*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.00	"	"	"	"	"	"	
Chrysene	ND	1.00	"	"	"	"	"	"	

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MW-2

T151699-19 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Fluoranthene	ND	1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Fluorene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	ND	1.00	"	"	"	"	"	"	
Pyrene	**1.82**	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*100 %*	*33-141*		*"*	*"*	*"*	*"*	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

MW-3

T151699-20 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	0.050	mg/l	1	5081116	08/11/15	08/13/15	EPA 8015C	O-05
C13-C28 (DRO)	**10**	0.050	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**7.9**	0.10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*90.3 %*		*65-135*	"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	1.0	ug/l	1	5072043	07/20/15	07/21/15	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
C6-C12 (GRO)	**190**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.9 %*		*88.8-117*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*83.5-119*	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.5 %*		*81.1-136*	"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**11.9**	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	**7.56**	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	**15.4**	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	**4.34**	1.00	"	"	"	"	"	"	
Chrysene	**6.04**	1.00	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

MW-3

T151699-20 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Fluoranthene	ND	1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Fluorene	**5.74**	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	ND	1.00	"	"	"	"	"	"	
Pyrene	**36.1**	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*89.4 %*		*33-141*	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-GW

T151699-21 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	**26**	0.50	mg/l	10	5081116	08/11/15	08/13/15	EPA 8015C	O-05
C13-C28 (DRO)	**320**	0.50	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**400**	1.0	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*97.1 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	**41**	1.0	ug/l	1	5072043	07/20/15	07/21/15	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
C6-C12 (GRO)	**69000**	1200	"	25	"	"	"	"	
Surrogate: Toluene-d8		*76.5 %*	*88.8-117*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*320 %*	*83.5-119*		"	"	"	"	*S-04*
Surrogate: Dibromofluoromethane		*93.9 %*	*81.1-136*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.00	"	"	"	"	"	"	
Chrysene	ND	1.00	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-10-GW

T151699-21 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Fluoranthene	ND	1.00	"	"	"	"	"	"	
Fluorene	ND	1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	ND	1.00	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*%*	*33-141*		*"*	*"*	*"*	*"*	*S-04*

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-GW

T151699-22 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	**3.0**	0.050	mg/l	1	5081116	08/11/15	08/13/15	EPA 8015C	O-05
C13-C28 (DRO)	**61**	0.050	"	"	"	"	"	"	O-05
C29-C40 (MORO)	**76**	0.10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*86.3 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	**4.2**	1.0	ug/l	1	5072043	07/20/15	07/22/15	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
C6-C12 (GRO)	**390**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*122 %*	*83.5-119*		"	"	"	"	*S-04*
Surrogate: Dibromofluoromethane		*81.0 %*	*81.1-136*		"	"	"	"	*S-04*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	**3.28**	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	**1.36**	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	**1.56**	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.00	"	"	"	"	"	"	
Chrysene	**2.92**	1.00	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

B-11-GW

T151699-22 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	1.00	ug/l	1	5072305	07/23/15	07/23/15	EPA 8270C SIM	
Fluoranthene	ND	1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Fluorene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	ND	1.00	"	"	"	"	"	"	
Pyrene	**4.10**	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*97.2 %*		*33-141*	"	"	"	"	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

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 5080715 - EPA 3550B GC										
Blank (5080715-BLK1)				Prepared: 08/07/15 Analyzed: 08/08/15						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*99.1*		*"*	*100*		*99.1*	*65-135*			
LCS (5080715-BS1)				Prepared: 08/07/15 Analyzed: 08/08/15						
C13-C28 (DRO)	450	10	mg/kg	500		90.4	75-125			
Surrogate: p-Terphenyl	*99.8*		*"*	*100*		*99.8*	*65-135*			
Matrix Spike (5080715-MS1)	**Source: T151699-10**			Prepared: 08/07/15 Analyzed: 08/09/15						
C13-C28 (DRO)	450	10	mg/kg	500	ND	90.8	75-125			
Surrogate: p-Terphenyl	*97.5*		*"*	*100*		*97.5*	*65-135*			
Matrix Spike Dup (5080715-MSD1)	**Source: T151699-10**			Prepared: 08/07/15 Analyzed: 08/09/15						
C13-C28 (DRO)	450	10	mg/kg	500	ND	90.2	75-125	0.677	20	
Surrogate: p-Terphenyl	*95.7*		*"*	*100*		*95.7*	*65-135*			
Batch 5081116 - EPA 3510C GC										
Blank (5081116-BLK1)				Prepared: 08/11/15 Analyzed: 08/13/15						
C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	*3.08*		*"*	*4.00*		*76.9*	*65-135*			
LCS (5081116-BS1)				Prepared: 08/11/15 Analyzed: 08/13/15						
C13-C28 (DRO)	17.4	0.050	mg/l	20.0		86.9	75-125			
Surrogate: p-Terphenyl	*3.42*		*"*	*4.00*		*85.4*	*65-135*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

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 5081116 - EPA 3510C GC										
LCS Dup (5081116-BSD1)				Prepared: 08/11/15 Analyzed: 08/13/15						
C13-C28 (DRO)	17.8	0.050	mg/l	20.0		89.2	75-125	2.56	20	
Surrogate: p-Terphenyl	*3.77*		*"*	*4.00*		*94.2*	*65-135*			

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

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
Batch 5072033 - EPA 5030 GCMS										
Blank (5072033-BLK1)				Prepared: 07/20/15 Analyzed: 07/24/15						
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	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
C6-C12 (GRO)	ND	500	"							
Surrogate: Toluene-d8	*40.3*		*"*	*40.0*		*101*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*39.8*		*"*	*40.0*		*99.4*	*81.2-123*			
Surrogate: Dibromofluoromethane	*29.5*		*"*	*40.0*		*73.8*	*95.7-135*			*S-GC*
LCS (5072033-BS1)				Prepared: 07/20/15 Analyzed: 07/24/15						
Chlorobenzene	89.8	5.0	ug/kg	100		89.8	75-125			
1,1-Dichloroethene	84.0	5.0	"	100		84.0	75-125			
Trichloroethene	92.1	5.0	"	100		92.1	75-125			
Benzene	81.6	5.0	"	100		81.6	75-125			
Toluene	88.4	5.0	"	100		88.4	75-125			
Surrogate: Toluene-d8	*42.4*		*"*	*40.0*		*106*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*43.3*		*"*	*40.0*		*108*	*81.2-123*			
Surrogate: Dibromofluoromethane	*34.9*		*"*	*40.0*		*87.2*	*95.7-135*			*S-GC*
LCS Dup (5072033-BSD1)				Prepared: 07/20/15 Analyzed: 07/24/15						
Chlorobenzene	89.4	5.0	ug/kg	100		89.4	75-125	0.502	20	
1,1-Dichloroethene	86.2	5.0	"	100		86.2	75-125	2.47	20	
Trichloroethene	93.8	5.0	"	100		93.8	75-125	1.78	20	
Benzene	81.8	5.0	"	100		81.8	75-125	0.306	20	
Toluene	92.0	5.0	"	100		92.0	75-125	3.88	20	
Surrogate: Toluene-d8	*41.9*		*"*	*40.0*		*105*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*39.6*		*"*	*40.0*		*99.1*	*81.2-123*			
Surrogate: Dibromofluoromethane	*34.4*		*"*	*40.0*		*85.9*	*95.7-135*			*S-GC*

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

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
Batch 5072043 - EPA 5030 GCMS										
Blank (5072043-BLK1)				Prepared: 07/20/15 Analyzed: 07/21/15						
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	"							
C6-C12 (GRO)	ND	50	"							
Surrogate: Toluene-d8	*7.66*		*"*	*8.00*		*95.8*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*7.67*		*"*	*8.00*		*95.9*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.57*		*"*	*8.00*		*94.6*	*81.1-136*			
LCS (5072043-BS1)				Prepared: 07/20/15 Analyzed: 07/21/15						
Chlorobenzene	20.2	1.0	ug/l	20.0		101	75-125			
1,1-Dichloroethene	20.8	1.0	"	20.0		104	75-125			
Trichloroethene	18.5	1.0	"	20.0		92.4	75-125			
Benzene	19.0	0.50	"	20.0		95.2	75-125			
Toluene	17.1	0.50	"	20.0		85.6	75-125			
Surrogate: Toluene-d8	*7.51*		*"*	*8.00*		*93.9*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.43*		*"*	*8.00*		*105*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.56*		*"*	*8.00*		*94.5*	*81.1-136*			
LCS Dup (5072043-BSD1)				Prepared: 07/20/15 Analyzed: 07/21/15						
Chlorobenzene	19.3	1.0	ug/l	20.0		96.5	75-125	4.46	20	
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125	2.14	20	
Trichloroethene	17.4	1.0	"	20.0		87.0	75-125	5.97	20	
Benzene	19.6	0.50	"	20.0		97.8	75-125	2.69	20	
Toluene	16.5	0.50	"	20.0		82.4	75-125	3.75	20	
Surrogate: Toluene-d8	*7.51*		*"*	*8.00*		*93.9*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.42*		*"*	*8.00*		*105*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.35*		*"*	*8.00*		*104*	*81.1-136*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5072305 - EPA 3550 ECD/GCMS										
Blank (5072305-BLK1)				Prepared & Analyzed: 07/23/15						
Acenaphthene	ND	1.00	ug/l							
Acenaphthylene	ND	1.00	"							
Anthracene	ND	1.00	"							
Benzo (a) anthracene	ND	1.00	"							
Benzo (b) fluoranthene	ND	1.00	"							
Benzo (k) fluoranthene	ND	1.00	"							
Benzo (g,h,i) perylene	ND	1.00	"							
Benzo (a) pyrene	ND	1.00	"							
Chrysene	ND	1.00	"							
Dibenz (a,h) anthracene	ND	1.00	"							
Fluoranthene	ND	1.00	"							
Fluorene	ND	1.00	"							
Indeno (1,2,3-cd) pyrene	ND	1.00	"							
Naphthalene	ND	1.00	"							
Phenanthrene	ND	1.00	"							
Pyrene	ND	1.00	"							
Surrogate: Terphenyl-dl4	*17.2*		*"*	*20.0*		*85.9*	*33-141*			
LCS (5072305-BS1)				Prepared & Analyzed: 07/23/15						
Acenaphthene	10.0	1.00	ug/l	20.0		50.0	50-130			
Pyrene	10.7	1.00	"	20.0		53.4	50-130			
Surrogate: Terphenyl-dl4	*16.6*		*"*	*20.0*		*83.2*	*33-141*			
LCS Dup (5072305-BSD1)				Prepared & Analyzed: 07/23/15						
Acenaphthene	10.0	1.00	ug/l	20.0		50.2	50-130	0.399	31	
Pyrene	11.2	1.00	"	20.0		55.9	50-130	4.57	31	
Surrogate: Terphenyl-dl4	*16.5*		*"*	*20.0*		*82.7*	*33-141*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5072307 - EPA 3550 ECD/GCMS										
Blank (5072307-BLK1)				Prepared: 07/23/15 Analyzed: 07/24/15						
Acenaphthene	ND	10	ug/kg							
Acenaphthylene	ND	5.0	"							
Anthracene	ND	5.0	"							
Benzo (a) anthracene	ND	5.0	"							
Benzo (b) fluoranthene	ND	10	"							
Benzo (k) fluoranthene	ND	10	"							
Benzo (g,h,i) perylene	ND	5.0	"							
Benzo (a) pyrene	ND	10	"							
Chrysene	ND	5.0	"							
Dibenz (a,h) anthracene	ND	5.0	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	10	"							
Indeno (1,2,3-cd) pyrene	ND	5.0	"							
Naphthalene	ND	5.0	"							
Phenanthrene	ND	5.0	"							
Pyrene	ND	10	"							
Surrogate: Terphenyl-dl4	*313*		*"*	*333*		*93.9*	*18-137*			
LCS (5072307-BS1)				Prepared: 07/23/15 Analyzed: 07/24/15						
Acenaphthene	191	10	ug/kg	333		57.3	50-130			
Pyrene	221	10	"	333		66.4	50-130			
Surrogate: Terphenyl-dl4	*330*		*"*	*333*		*99.2*	*18-137*			
Matrix Spike (5072307-MS1)		**Source: T151699-03**		Prepared: 07/23/15 Analyzed: 07/24/15						
Acenaphthene	134	10	ug/kg	333	ND	40.3	50-130			QM-07
Pyrene	253	10	"	333	ND	75.8	50-130			
Surrogate: Terphenyl-dl4	*368*		*"*	*333*		*110*	*18-137*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 16:11

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5072307 - EPA 3550 ECD/GCMS										
Matrix Spike Dup (5072307-MSD1)	**Source: T151699-03**			Prepared: 07/23/15 Analyzed: 07/24/15						
Acenaphthene	142	10	ug/kg	333	ND	42.7	50-130	5.78	31	QM-07
Pyrene	232	10	"	333	ND	69.5	50-130	8.67	31	
Surrogate: Terphenyl-dl4	*373*		*"*	*333*		*112*	*18-137*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/13/15 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-11	The surrogate recovery was above acceptance criteria in the sample. The sample is ND for the analytes of interest. The surrogate recovery was within acceptance criteria in the method blank and LCS.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
O-05	This sample was extracted outside of the EPA recommended holding time.
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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949-297-5020

Chain of Custody Record

Client: Gribi Associates
Address: 1090 Adams St, #K, Benicia, CA
Phone: 707-748-7743 Fax: 707-748-7763
Project Manager: J. Gribi

Date: 7/16/2015 Page: 1 Of 2
Project Name: Athlowe - Market Street
Collector: M. Rasman Client Project #:
Batch #: 7151699 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only TPH-G	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Naphthalene (8260)	SIM PAHs (8270)		Laboratory ID #	Comments/Preservative	Total # of containers
B-10-2.0	7/15	0845	Soil				X								X	X		01		
B-10-4.0		0850					X								X	X		02		
B-10-6.0		0855					X								X	X		03		
B-10-8.0		0900					X								X	X		04		
B-10-10.0		0905					X								X	X		05		
B-10-12.0		0910					X								X	X		06		
B-10-15.0		0915					X								X	X		07		
B-10-18.0		0925					X								X	X		08		
B-10-19.5		0930					X								X	X		09		
B-10-21.0		0935					X								X	X		10		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
MPR	7/16/15 1000	[signature]	7/16/15 1400
GSO	7/17/15 9:10	[signature]	7-17-15 9:10

Total # of containers:
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold: 3.0

Turn around time: STD

Notes
STD. TAT

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 141451

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Gribi Associates
Address: 1090 Adams St, #K, Benicia CA 94510
Phone: 707-748-7743 Fax: 707-748-7763
Project Manager: J. Gribi

Date: 7/16/2015 Page: 2 Of 2
Project Name: Athowe - Market Street
Collector: M. Rosman Client Project #:
Batch #: T151699 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY ~~only~~ TPH-G	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Naphthalene (8260)	SIM PAHs (8270)		Laboratory ID #	Comments/Preservative	Total # of containers
B-11-9.0	7/15	1000	Soil				X								X	X		11		
B-11-11.0	7/15	1010					X								X	X		12		
B-11-13.0		1020					X								X	X		13		
B-11-15.0		1030					X								X	X		14		
B-11-17.0		1040					X											15		
SG-1-5.0	7/15	1255	Soil				X								X	X		16		
SG-2-5.0	7/15	1315	Soil				X								X	X		17		
MW-1	7/15	0930	water				X								X	X		18		
MW-2		0830					X								X	X		19		
MW-3		1015					X								X	X		20		
B-10-GW		1115					X								X	X		21		
B-11-GW		1200					X								X	X		22		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	7/16/15 1000		7/16/15 1400
GSO	7/17/15 9:10		7/17/15 9:10

Total # of containers
Chain of Custody seals (Y)/N/NA
Seals intact? (Y)/N/NA
Received good condition/cold 3.0

Turn around time: STD

Notes
STD. TAT

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 141475

SunStar Laboratories, Inc.
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SAMPLE RECEIVING REVIEW SHEET

BATCH # 715699

Client Name: GRIBI Project: ATTHOWE - MARKET STREET

Received by: SUNNY Date/Time Received: 7.17.15 / 9:10

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.2 °C +/- the CF (- 0.2°C) = 3.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☒Yes	☐No*	☐N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	[ ]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 SL 7.17.15

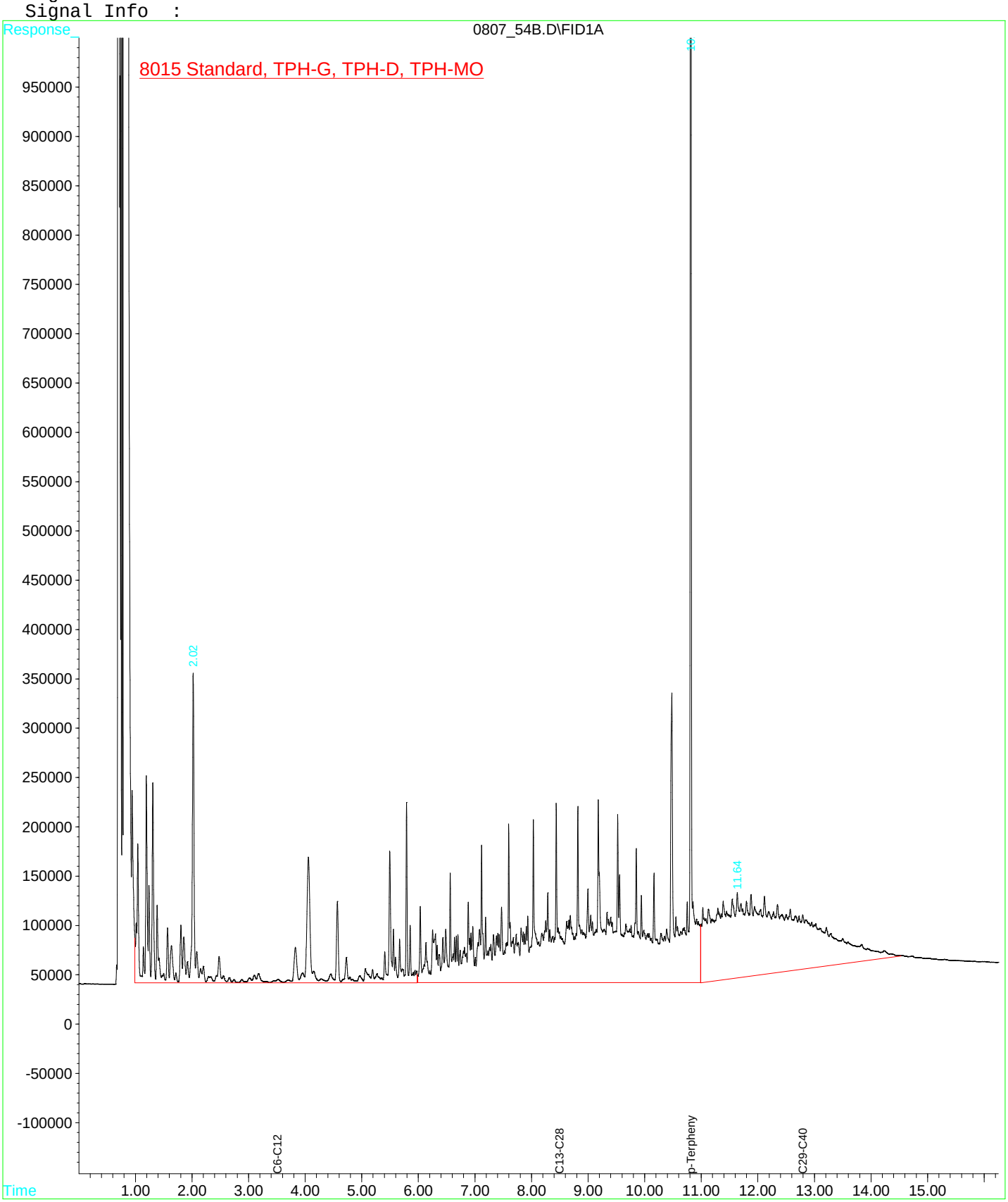
Comments:

Quantitation Report

Data File : I:\DRO-5\DATA20~1\080715\0807_54B.D Vial: 2
Acq On : 8-8-2015 3:52:30 PM Operator: DAVID
Sample : 8015 500PPM CC Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 10 8:44 19115 Quant Results File: 050115.RES

Quant Method : Q:\DRO-5\METHODS\050115.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Fri May 01 10:45:43 2015
Response via : Multiple Level Calibration
DataAcq Meth : CC010615.M

Volume Inj. :
Signal Phase :
Signal Info :

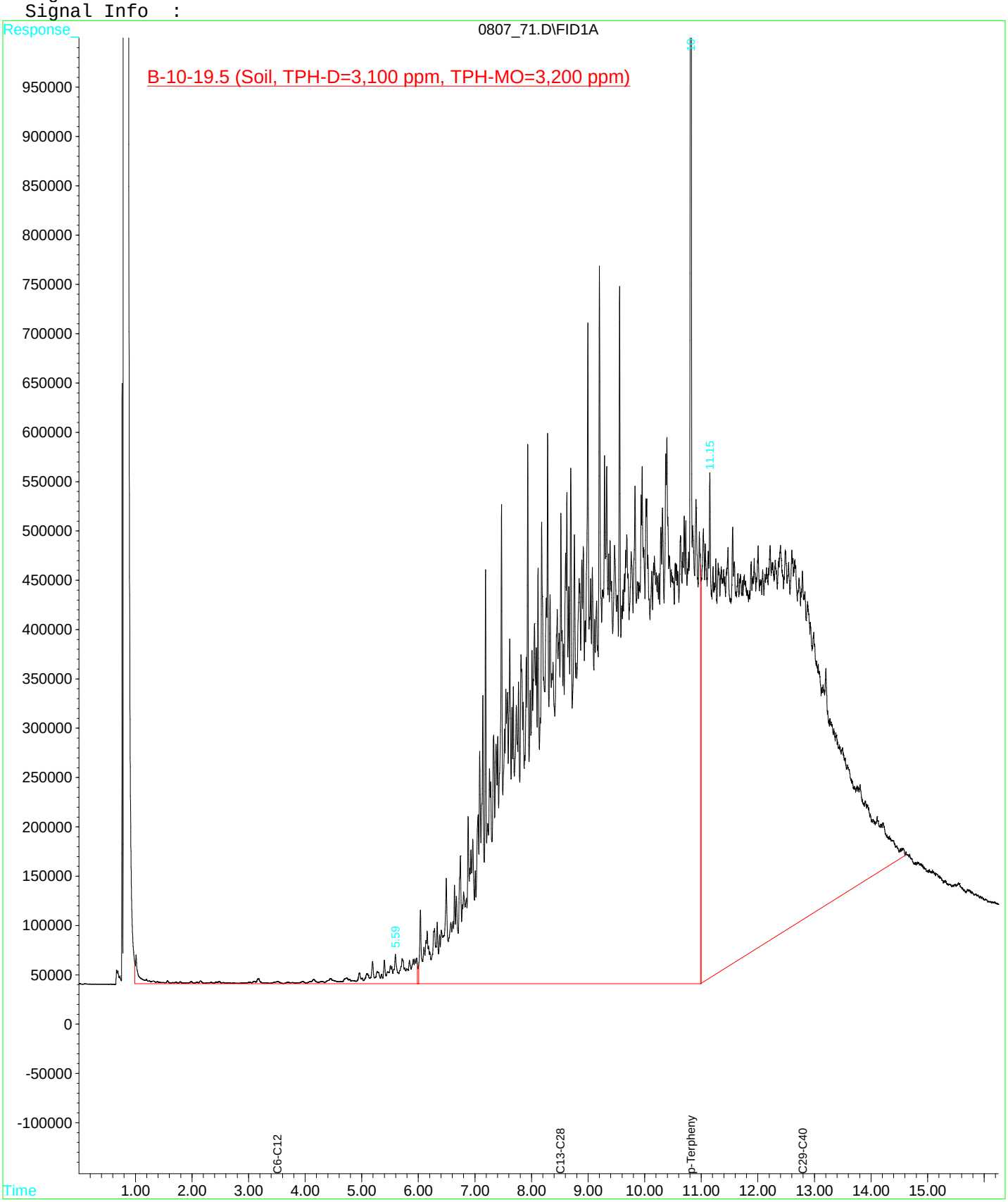


Quantitation Report

Data File : I:\DRO-5\DATA20~1\080715\0807_71.D Vial: 61
Acq On : 8-8-2015 10:58:58 PM Operator: DAVID
Sample : T151699-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 10 8:59 19115 Quant Results File: 050115.RES

Quant Method : Q:\DRO-5\METHODS\050115.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Fri May 01 10:45:43 2015
Response via : Multiple Level Calibration
DataAcq Meth : CC010615.M

Volume Inj. :
Signal Phase :
Signal Info :

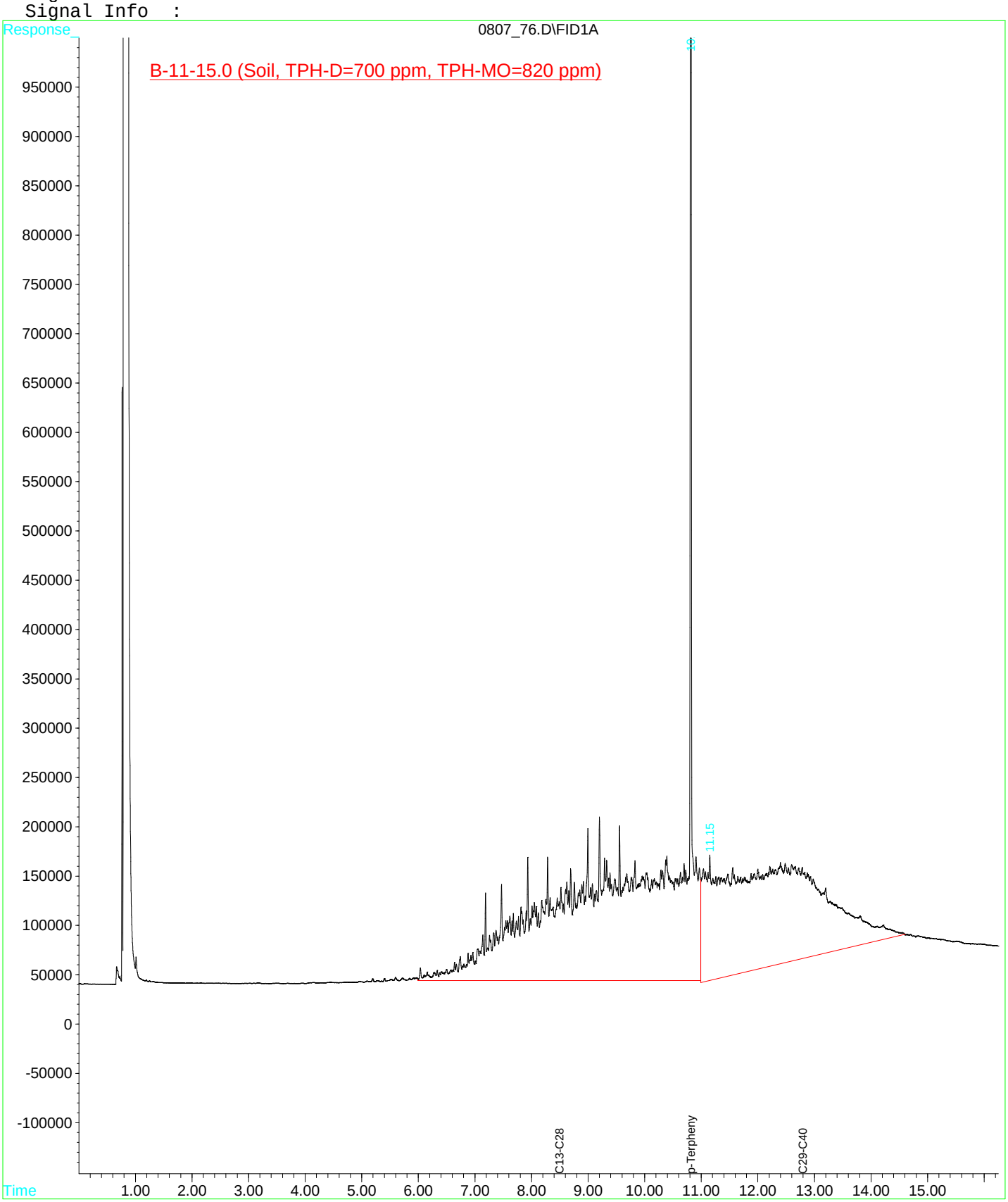


Quantitation Report

Data File : I:\DRO-5\DATA20~1\080715\0807_76.D Vial: 66
Acq On : 8-9-2015 1:03:02 AM Operator: DAVID
Sample : T151699-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 10 9:03 19115 Quant Results File: 050115.RES

Quant Method : Q:\DRO-5\METHODS\050115.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Fri May 01 10:45:43 2015
Response via : Multiple Level Calibration
DataAcq Meth : CC010615.M

Volume Inj. :
Signal Phase :
Signal Info :

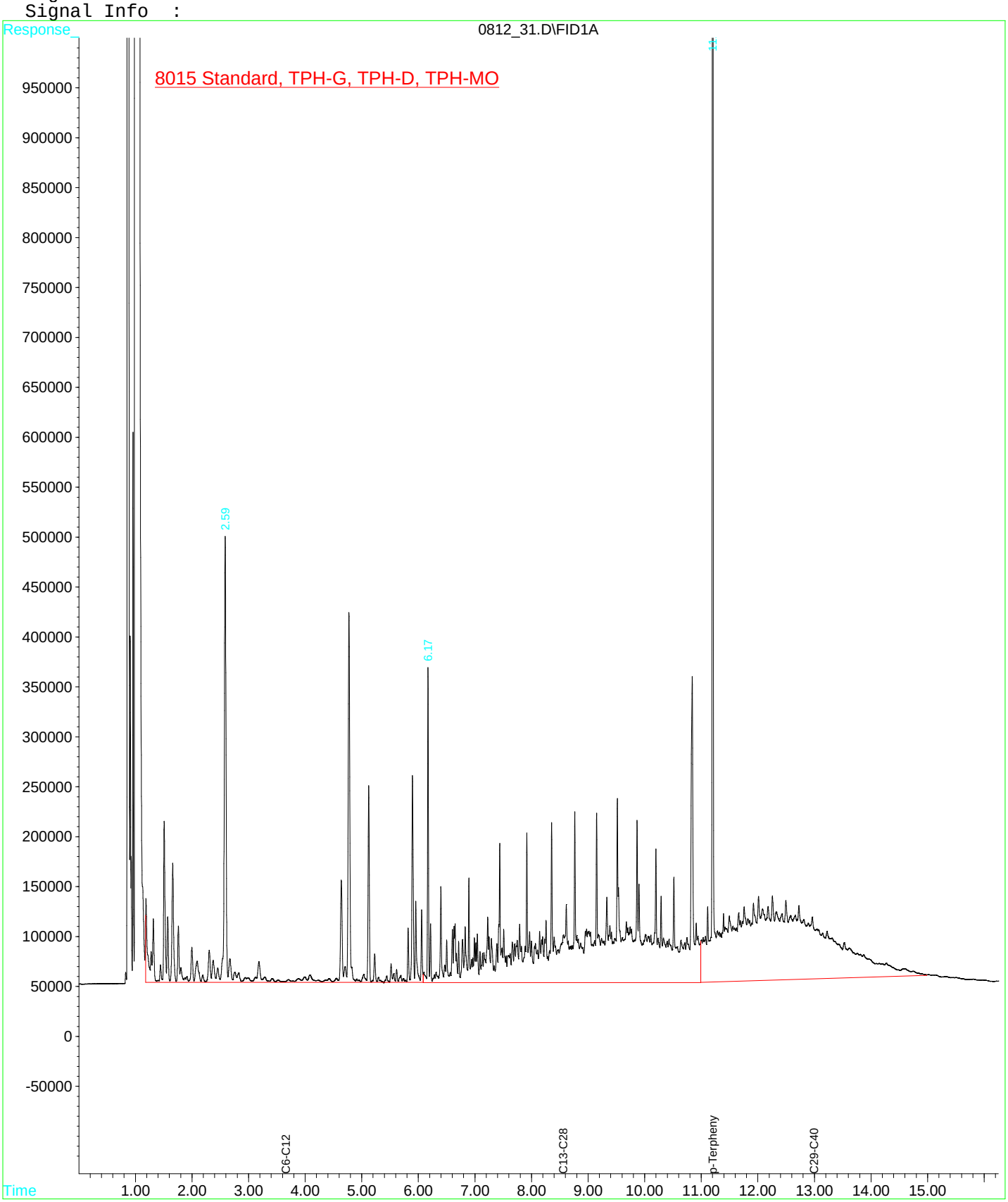


Quantitation Report

Data File : I:\DRO-5\DATA20~1\081215\0812_31.D Vial: 14
Acq On : 8-12-2015 9:42:45 PM Operator: DAVID
Sample : ICV Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 13 11:23 19115 Quant Results File: CC081315.RES

Quant Method : Q:\DRO-5\METHODS\CC081315.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Thu Aug 13 11:18:25 2015
Response via : Multiple Level Calibration
DataAcq Meth : CC010915.M

Volume Inj. :
Signal Phase :
Signal Info :

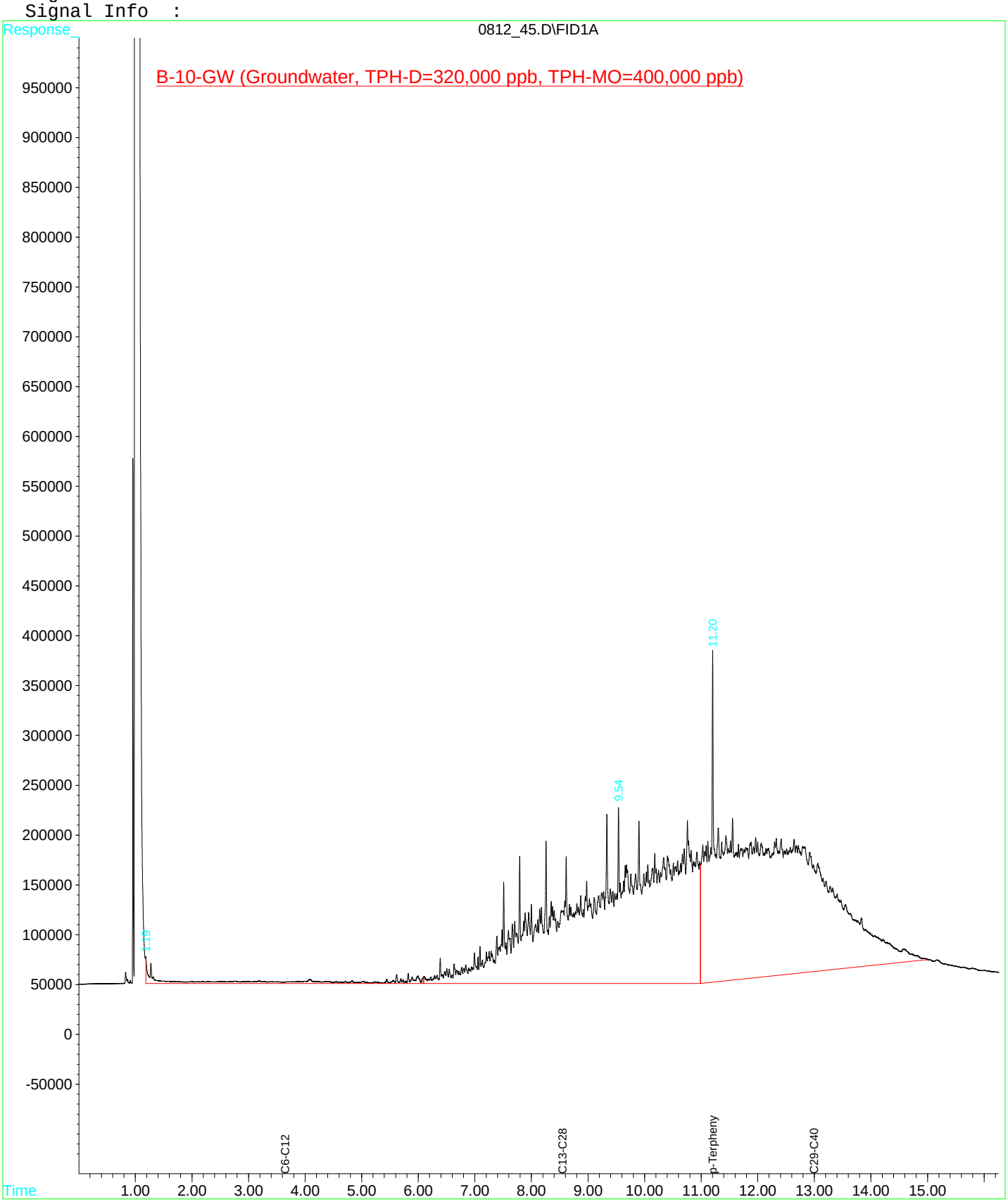


Quantitation Report

Data File : I:\DRO-5\DATA20~1\081215\0812_45.D Vial: 26
Acq On : 8-13-2015 3:30:34 AM Operator: DAVID
Sample : T151699-21 10X Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 13 11:40 19115 Quant Results File: CC081315.RES

Quant Method : Q:\DRO-5\METHODS\CC081315.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Thu Aug 13 11:18:25 2015
Response via : Multiple Level Calibration
DataAcq Meth : CC010915.M

Volume Inj. :
Signal Phase :
Signal Info :

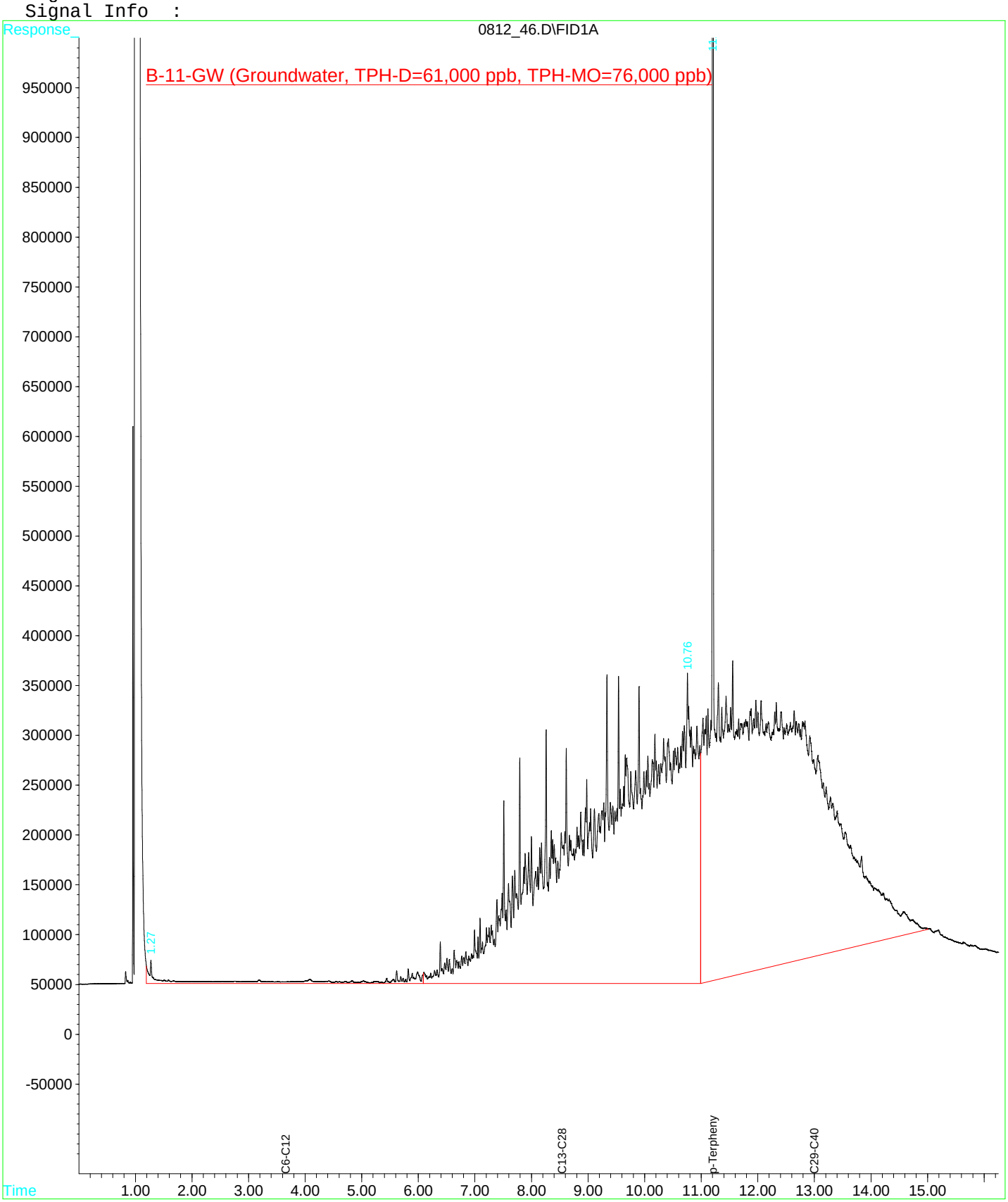


Quantitation Report

Data File : I:\DRO-5\DATA20~1\081215\0812_46.D Vial: 27
Acq On : 8-13-2015 3:55:15 AM Operator: DAVID
Sample : T151699-22 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 13 11:42 19115 Quant Results File: CC081315.RES

Quant Method : Q:\DRO-5\METHODS\CC081315.M (Chemstation Integrator)
Title : EPH - Extended Run
Last Update : Thu Aug 13 11:18:25 2015
Response via : Multiple Level Calibration
DataAcq Meth : CC010915.M

Volume Inj. :
Signal Phase :
Signal Info :



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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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04 August 2015

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510

RE: Atthowe-Market Street

Enclosed are the results of analyses for samples received by the laboratory on 07/25/15 09:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-1	T151791-01	Air	07/21/15 16:23	07/25/15 09:15
SG-2	T151791-02	Air	07/21/15 17:26	07/25/15 09:15

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

DETECTIONS SUMMARY

Sample ID: SG-1 **Laboratory ID:** T151791-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**9.9**	3.3	ug/m³ Air	TO-15	
Toluene	**94**	3.8	ug/m³ Air	TO-15	
Ethylbenzene	**120**	4.4	ug/m³ Air	TO-15	
m,p-Xylene	**380**	8.8	ug/m³ Air	TO-15	
o-Xylene	**150**	4.4	ug/m³ Air	TO-15	
Oxygen	**8.29**	1.00	%	GC	
Nitrogen	**83.9**	1.00	%	GC	

Sample ID: SG-2 **Laboratory ID:** T151791-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**17**	3.3	ug/m³ Air	TO-15	
Toluene	**15**	3.8	ug/m³ Air	TO-15	
Ethylbenzene	**27**	4.4	ug/m³ Air	TO-15	
m,p-Xylene	**98**	8.8	ug/m³ Air	TO-15	
o-Xylene	**36**	4.4	ug/m³ Air	TO-15	
Oxygen	**9.10**	1.00	%	GC	
Nitrogen	**80.1**	1.00	%	GC	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

SG-1

T151791-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Benzene	**9.9**	3.3	ug/m³ Air	1.96	5072822	07/28/15	08/03/15	TO-15	
Toluene	**94**	3.8	"	"	"	"	"	"	
Ethylbenzene	**120**	4.4	"	"	"	"	"	"	
m,p-Xylene	**380**	8.8	"	"	"	"	"	"	
o-Xylene	**150**	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*68.2 %*	*40-160*		"	"	"	"	
Methane by GC									
Methane	ND	5.0	ppm(v)	1	5073017	07/30/15	08/01/15	8015M	O-04
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	ND	7170	ug/m³ Air	1.96	5072823	07/28/15	07/28/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	1.00	%	1	5073016	07/30/15	08/04/15	GC	
Oxygen	**8.29**	1.00	"	"	"	"	"	"	
Nitrogen	**83.9**	1.00	"	"	"	"	"	"	
Helium	ND	5.00	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

SG-2

T151791-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Benzene	**17**	3.3	ug/m³ Air	1.91	5072822	07/28/15	08/03/15	TO-15	
Toluene	**15**	3.8	"	"	"	"	"	"	
Ethylbenzene	**27**	4.4	"	"	"	"	"	"	
m,p-Xylene	**98**	8.8	"	"	"	"	"	"	
o-Xylene	**36**	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78.9 %*	*40-160*		"	"	"	"	
Methane by GC									
Methane	ND	5.0	ppm(v)	1	5073017	07/30/15	08/01/15	8015M	O-04
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	ND	7170	ug/m³ Air	1.91	5072823	07/28/15	07/28/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	1.00	%	1	5073016	07/30/15	08/04/15	GC	
Oxygen	**9.10**	1.00	"	"	"	"	"	"	
Nitrogen	**80.1**	1.00	"	"	"	"	"	"	
Helium	ND	5.00	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5072822 - EPA 5030 GCMS										
Blank (5072822-BLK1)				Prepared: 07/28/15 Analyzed: 08/03/15						
Benzene	ND	3.3	ug/m³ Air							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
Surrogate: 4-Bromofluorobenzene	*39.4*		*"*	*45.3*		*87.0*	*40-160*			
Duplicate (5072822-DUP1)	**Source: T151791-01**			Prepared: 07/28/15 Analyzed: 08/03/15						
Benzene	9.94	3.3	ug/m³ Air		9.88			0.643	30	
Toluene	92.7	3.8	"		94.2			1.53	30	
Ethylbenzene	121	4.4	"		123			2.13	30	
m,p-Xylene	373	8.8	"		384			2.93	30	
o-Xylene	141	4.4	"		148			4.50	30	
Surrogate: 4-Bromofluorobenzene	*30.8*		*"*	*45.3*		*68.2*	*40-160*			

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

Methane by GC - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5073017 - EPA 5030 GC										
Blank (5073017-BLK1)				Prepared: 07/30/15 Analyzed: 08/01/15						
Methane	ND	5.0	ppm(v)							
Duplicate (5073017-DUP1)		**Source: T151791-01**		Prepared: 07/30/15 Analyzed: 08/01/15						
Methane	ND	5.0	ppm(v)		ND				20	

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Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

Total Volatile Organic Compounds by TO-3 (modified) - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5072823 - EPA 5030 GCMS										
Blank (5072823-BLK1)				Prepared & Analyzed: 07/28/15						
C6-C12 (GRO)	ND	7170	ug/m³ Air							
Duplicate (5072823-DUP1)		**Source: T151791-01**		Prepared & Analyzed: 07/28/15						
C6-C12 (GRO)	ND	7170	ug/m³ Air		ND				30	

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Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

Fixed Gases ASTM D1946-90 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5073016 - EPA 5030 GC										
Blank (5073016-BLK1)				Prepared: 07/30/15 Analyzed: 08/04/15						
Carbon Dioxide	ND	1.00	%							
Oxygen	ND	1.00	"							
Nitrogen	ND	1.00	"							
Helium	ND	5.00	"							
Duplicate (5073016-DUP1)	**Source: T151791-01**			Prepared: 07/30/15 Analyzed: 08/04/15						
Carbon Dioxide	0.69	1.00	%		0.80			13.9	20	
Oxygen	12.2	1.00	"		8.29			38.4	20	DUP-01
Nitrogen	83.4	1.00	"		83.9			0.500	20	
Helium	ND	5.00	"		ND				200	

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Katherine RunningCrane, Project Manager

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949.297.5027 Fax

Gribi Associates	Project: Atthowe-Market Street	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/04/15 17:31

Notes and Definitions

O-04	This sample was received and analyzed outside the EPA recommended holding time.
DUP-01	The RPD result exceeded the QC control limits for this analyte; sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

Katherine RunningCrane

Katherine RunningCrane, Project Manager

AIR LABORATORY

Chain of Custody Record

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Gribi Associates
Address: 1090 Adams St #K, Benicia, CA
Phone: 707-748-7743 Fax: 707-748-7763
Project Manager: J. Gribi

Date: 7/24/2015 Page: 1 Of 1
Project Name: Athouse Market Street
Collector: M. Rosmon Client Project #:
Batch #: TIS1791 EDF #:

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3 RSK 175 Methane	TO-14	TO-15 TPH-G, BTEX	8015m Methane	8015m Gasoline	Fixed Gases by TCD Helium, Oxygen, CO_2, Nitrogen		Summa Can # / Comments	Laboratory ID #
SG-1	7/21	1623	1630	SG	Summa	29	5	X		X			X		0229	01
SG-2	7/21	1726	1734	SG	Summa	29	5	X		X			X		0288	02

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	7/24/15 1120	[signature]	7/24/15 1200
[signature]	7.25.15 9:15	[signature]	7.25.15 9:15
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 2
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 20.0

Turn around time: STD

Notes: STD. TAT

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 145316

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

BATCH # 151791

Client Name: GRIBI Project: ATTHOWE MARKET STREET

Received by: BRIAN Date/Time Received: 7.25.15 9:15

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 20.2 °C +/- the CF (- 0.2°C) = 20.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☐ Yes	☐ No*	☒ N/A
Custody Seals Intact on Cooler/Sample	☐ Yes	☐ No*	☒ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ 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 BC 7.25.15

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1507833

Report Created for: Gribi Associates

1090 Adams St., Suite K
Benicia, CA 94510

Project Contact: Matt Rosman
Project P.O.:
Project Name: Attowe

Project Received: 07/21/2015

Analytical Report reviewed & approved for release on 08/04/2015 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.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Gribi Associates
Project: Attowe
WorkOrder: 1507833

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)
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.
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)

McCampbell Analytical, Inc.
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Gribi Associates	**WorkOrder:**	1507833
Date Received:	7/21/15 20:40	**Extraction Method:**	ASTM D 1946-90
Date Prepared:	7/29/15	**Analytical Method:**	ASTM D 1946-90
Project:	Attowe	**Unit:**	%

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG-1	1507833-001A	SoilGas	07/21/2015 16:10	GC26	108297

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.27	22.44	AK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	07/29/2015 16:01

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG-2	1507833-002A	SoilGas	07/21/2015 17:08	GC26	108297

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.71	23.39	AK

Analytes	Result	RL	DF	Date Analyzed
Helium	ND	0.050	1	07/29/2015 16:15

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client: Gribi Associates
Date Received: 7/21/15 20:40
Date Prepared: 7/30/15
Project: Attowe

WorkOrder: 1507833
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
SG-1	1507833-001A	SoilGas	07/21/2015 16:10	GC26	108354

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.27	22.44	AK

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**25,000**	160	4	07/30/2015 09:58
Oxygen	**150,000**	4000	1	07/30/2015 09:58

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG-2	1507833-002A	SoilGas	07/21/2015 17:08	GC26	108354

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.71	23.39	AK

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	**4500**	160	4	07/30/2015 10:19
Oxygen	**160,000**	4000	1	07/30/2015 10:19

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"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Gribi Associates	**WorkOrder:**	1507833
Date Received:	7/21/15 20:40	**Extraction Method:**	TO17
Date Prepared:	8/3/15-8/4/15	**Analytical Method:**	TO17
Project:	Attowe	**Unit:**	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG-1	1507833-001B	SoilGas	07/21/2015 16:10	GC37	108502

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1000	1	08/03/2015 23:41
Naphthalene	ND	2.7	1	08/03/2015 23:41

Surrogates	REC (%)	Limits	
4-BFB	92	70-130	08/03/2015 23:41

Analyst(s): GM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SG-2	1507833-002B	SoilGas	07/21/2015 17:08	GC37	108502

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**5200**	1000	1	08/04/2015 00:28
Naphthalene	ND	2.7	1	08/04/2015 00:28

Surrogates	REC (%)	Limits	
4-BFB	90	70-130	08/04/2015 00:28

Analyst(s): GM

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Quality Control Report

Client:	Gribi Associates	**WorkOrder:**	1507833
Date Prepared:	7/29/15	**BatchID:**	108297
Date Analyzed:	7/29/15	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	Soilgas	**Unit:**	%
Project:	Attowe	**Sample ID:**	MB/LCS-108297

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Helium	ND	0.0128	0.025	0.010	-	128	60-140

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Quality Control Report

Client:	Gribi Associates	**WorkOrder:**	1507833
Date Prepared:	7/30/15	**BatchID:**	108354
Date Analyzed:	7/30/15	**Extraction Method:**	ASTM D 1946-90
Instrument:	GC26	**Analytical Method:**	ASTM D 1946-90
Matrix:	SoilGas	**Unit:**	uL/L
Project:	Attowe	**Sample ID:**	MB/LCS-108354

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Carbon Dioxide	ND	115	80	100	-	115	70-130
Oxygen	ND	5520	2000	7000	-	79	70-130

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Quality Control Report

Client:	Gribi Associates	**WorkOrder:**	1507833
Date Prepared:	8/3/15	**BatchID:**	108502
Date Analyzed:	8/3/15	**Extraction Method:**	TO17
Instrument:	GC37	**Analytical Method:**	TO17
Matrix:	Sorbent Tube	**Unit:**	µg/m³
Project:	Attowe	**Sample ID:**	MB/LCS-108502

QC Summary Report for TO17

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Naphthalene	ND	6.26	2.7	5	-	125	60-140
Surrogate Recovery							
4-BFB	88.9	77.9		100	89	78	60-140

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1507833 **ClientCode: GRIB**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Matt Rosman
Gribi Associates
1090 Adams St., Suite K
Benicia, CA 94510
(707) 748-7743 FAX: (707) 748-7763

Email: mrosman@gribiassociates.com; TFerrell@
cc/3rd Party:
PO:
ProjectNo: Attowe

Bill to:
Terry Ferrell
Gribi Associates
1090 Adams St., Suite K
Benicia, CA 94510

Requested TAT: **5 days;**

Date Received: **07/21/2015**
Date Printed: **08/04/2015**

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
1507833-001	SG-1	SoilGas	7/21/2015 16:10	☐	A	A	A	B								
1507833-002	SG-2	SoilGas	7/21/2015 17:08	☐	A	A		B								

Test Legend:

1	HELIUM_LC_SOILGAS(%)	2	LG_SUMMA_SOILGAS	3	PRHESHROUDRENTAL	4	TO17_ST(UG/M3)	5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

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.

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WORK ORDER SUMMARY

Client Name: GRIBI ASSOCIATES
Project: Attowe
Comments:

QC Level: LEVEL 2
Client Contact: Matt Rosman
Contact's Email: mrosman@gribiassociates.com; TFerrell@gribiassociates.com

Work Order: 1507833
Date Received: 7/21/2015

☐ 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
1507833-001A	SG-1	SoilGas	ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Oxygen>	1	1L Summa	☐	7/21/2015 16:10	5 days		☐	
			ASTM D1946-90 (Helium)			☐		5 days		☐	
1507833-001B	SG-1	SoilGas	TO17 (VOCs) (µg/m³) <Naphthalene, TPH-Diesel (C10-C23)>	1	Sorbent Tube	☐	7/21/2015 16:10	5 days		☐	
1507833-002A	SG-2	SoilGas	ASTM D1946-90 (Light Gases) <Carbon Dioxide_2, Oxygen>	1	1L Summa	☐	7/21/2015 17:08	5 days		☐	
			ASTM D1946-90 (Helium)			☐		5 days		☐	
1507833-002B	SG-2	SoilGas	TO17 (VOCs) (µg/m³) <Naphthalene, TPH-Diesel (C10-C23)>	1	Sorbent Tube	☐	7/21/2015 17:08	5 days		☐	

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.

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1507853

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 Project ☐ Claim #

Report To: Matt Rosman	Bill To:
Company: Gribi Associates	
1090 Adams St, # K	
Benicia, CA 94510	E-Mail:
Tele: (707) 748-7743	Fax: (707) 748-7763
Project #:	Project Name: Attowe
Project Location: Market Street, Oakland	
Sampler Signature: MAR	

Analysis Requested

Helium Shroud SN#

Other:

Notes: Please Specify units if different than defaults VOCs is ug/m3 and fixed gas is uL/L. Leak check default is IPA.

Helium, Oxygen, Carbon Dioxide, Nitrogen

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler 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-difluroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other: TO-17 1,2,4-Tri Naphthalene	Matrix: Soilgas	Matrix: Indoor Air	Canister Pressure/ Vacuum: Initial	Canister Pressure/ Vacuum: Final
SG-1	7/21	1610	1922-1905						X			X			X	X		29	5
SG-2	7/21	1708	1984-1932						X			X			X	X		29	5

Relinquished By:	Date:	Time:	Received By:
MAR	7/21/15	1900	Christina V.
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C): _____ Work Order #: _____

Condition: _____

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____

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Sample Receipt Checklist

Client Name: **Gribi Associates**
Date and Time Received: **7/21/2015 8:40:13 PM**

Project Name: **Attowe**
LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1507833** Matrix: SoilGas
Carrier: Client Drop-In

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 ☑

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

Comments:

Hydraulic Conductivity
ASTM D 5084
Method C: Falling Head Rising Tailwater

Job No:	545-002	**Boring:**	B-10	**Date:**	08/06/15
Client:	Gribi Associates	**Sample:**		**By:**	MD/PJ
Project:	Atthowe	**Depth, ft.:**	12-13	**Remolded:**	
Visual Classification:	Olive CLAY				

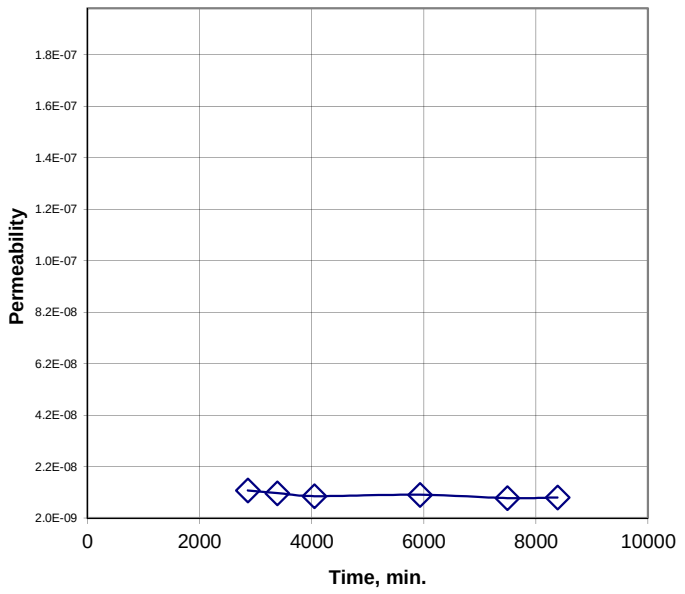
Max Sample Pressures, psi:

Cell:	Bottom	Top	Avg. Sigma3
53.5	50.5	46.5	5

B: = >0.95 **("B" is an indication of saturation)**

Max Hydraulic Gradient: = 30

Date	Minutes	Head, (in)	K,cm/sec
7/28/2015	0.00	125.76	**Start of Test**
7/30/2015	2860.00	124.76	1.3E-08
7/30/2015	3386.00	124.66	1.2E-08
7/31/2015	4048.00	124.56	1.1E-08
8/1/2015	5930.00	123.96	1.1E-08
8/2/2015	7489.00	123.76	9.8E-09
8/3/2015	8385.00	123.46	1.0E-08



Average Hydraulic Conductivity: 1.E-08 cm/sec

Sample Data:	Initial (As-Received)		Final (At-Test)
Height, in	4.22		4.22
Diameter, in	1.56		1.57
Area, in2	1.90		1.94
Volume in3	8.02		8.17
Total Volume, cc	131.5		133.9
Volume Solids, cc	77.3		77.3
Volume Voids, cc	54.2		56.6
Void Ratio	0.7		0.7
Total Porosity, %	41.2		42.3
Air-Filled Porosity (θa),%	2.9		0.1
Water-Filled Porosity (θw),%	38.3		42.2
Saturation, %	92.9		99.7
Specific Gravity	2.75	Assumed	2.75
Wet Weight, gm	262.8		268.9
Dry Weight, gm	212.4		212.4
Tare, gm	0.00		0.00
Moisture, %	23.7		26.6
Wet Bulk Density, pcf	124.7		125.3
Dry Bulk Density, pcf	100.8		99.0
Wet Bulk Dens.ρb, (g/cm^3)	2.00		2.01
Dry Bulk Dens.ρb, (g/cm^3)	1.62		1.59

Remarks: Extremely small samples, such as this one, tend to be highly disturbed and less representative of the in-situ conditions. A diameter of 2.5 inches is the recommended minimum for this type of testing. This should be taken into account when interpreting these results.

937 Commercial St
Palo Alto, CA 94303
TEL 650-213-8436
FAX 650-213-8437

Cooper Testing Labs, Inc.
Test Request Sheet

7/17

(email: peter@cooopertestinglabs.com) (home page: www.coopertestinglabs.com)

CTL#	545-002	P.O #:		Project Name:	Atthowe
Your Company:	Gribi Associates	Date In.			
Results To:	Jim Gribi	Email Address:	JGRIBI@GRIBIASSOCIATES.COM	Project No.:	
Priority (Circle One)	Standard	Rush (+50%)	Superrush (+100%)		
Billing Address:	1090 Adams St #K				
City	Benicia				
State:	CA	Zip.	94510		

Boring	Depth ft	Test	Instructions
B-10	12-13'	Permeability	

Test	Test #	Price ($)	Quantity
Moisture (MC)	1	19	
MD, 2-2.5" diameter	2	23	
MD 3" diameter	3	34	
PI Dry (CTL default)	4	163	
PI Wet Prep	5	233	
Sieve (SA)-3/4" / +3/4"	6	109/176	
Sieve + Hydrometer	7	182	
-#200Wash	8	79	
Specific Gravity(-#4)	9	89/110	
Specific Gravity(+#4)	10	157	
% Organics	11	89	
Total Porosity	12	109	
Effective Porosity	13	235	
UC-Soil	14	73	
UC-Soil-Cement-Precast	15	204	
UC-Lime Precast	16	177	
Direct Shear - CU	17	94/point	
Direct Shear - CD	18	209/point	
TX-UU	19	136	
TX-ICU	20	230/point	
TX-ICU- Staged	21	460/2-3 pts.	
TX-ICU-PP	22	475/point	
TX-ICU-PP- Staged	23	950/2-3 pts.	
Torsional peak or res	24	306/pt	
Torsional peak and res	25	571/pt	
Incremental - Consol	26	376	
SS/+Expansion-Pressure	27	286	
Shrink Swell (SS)	28	157	
Expansion Pressure	29	157	
Expansion Index, ASTM	30	392	
Expansion Index, UBC	31	418	
Collapse	32	167	
Permeability 2-3" dia.	33	318	
6" dia. Perm on rock <3/4"	34	418	
12" dia. Perm on rock <2"	35	836	
Modified Proctor 4"/ 6"	36	260/311	
Max Index Density 1 / 5ft	37	240/362	
Min. Index Density 1 / 5ft	38	119/240	
R-Value	39	250	
R-value-batch/admix	40	282/307	
CBR	41	825	
Sand Equivalent (SE)	42	109	
Class II AB Spec	43	750	
Durability Index, Fi / Co	44	130/156	
LA Abrasion	45	240	
Sulfate Soundness	46	156/frac.	
Rapid Chlor. Perm	47	527	
UC Lime (Cal 373)	48	935	
Remolding	49	61	
Junior Technician/hr	50	109	
Senior Technician/hr	51	136	
Principal/hr	52	167	
Sample Pick-up	53	83	

Corrosion Testing

Test	Test #	Price ($)	Quantity	Instructions
Resistivity-As Received (ASTM)	54	67		
Resistivity-100%Saturated(ASTM)	55	67		
Resistivity-Minimum (Caltrans)	56	146		
pH	57	32		
Sulfate	58	52		
Sulfide	59	42		
Redox	60	47		
Chloride	61	42		
Caltrans Package	62	240		
Package A	63	170		
Package B	64	170		
Package C	65	211		
Package D	66	211		
PG&E Package	67	247		

Instructions:

Effective
1 January 2015

See our fee schedule for a complete list of tests.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

18 November 2015

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510

RE: Atthowe Fine Art

Enclosed are the results of analyses for samples received by the laboratory on 11/04/15 11:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-12-7.5	T152749-01	Soil	11/02/15 11:20	11/04/15 11:00
B-12-11.5	T152749-02	Soil	11/02/15 11:25	11/04/15 11:00
B-12-15.5	T152749-03	Soil	11/02/15 11:30	11/04/15 11:00
B-12-19.0	T152749-04	Soil	11/02/15 11:35	11/04/15 11:00
B-12-W	T152749-05	Water	11/02/15 11:50	11/04/15 11:00
B-13-7.5	T152749-06	Soil	11/02/15 09:10	11/04/15 11:00
B-13-11.5	T152749-07	Soil	11/02/15 09:15	11/04/15 11:00
B-13-15.5	T152749-08	Soil	11/02/15 09:20	11/04/15 11:00
B-13-19.0	T152749-09	Soil	11/02/15 09:30	11/04/15 11:00
B-13-24.0	T152749-10	Soil	11/02/15 09:40	11/04/15 11:00
B-13-W	T152749-11	Water	11/02/15 10:00	11/04/15 11:00

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.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

DETECTIONS SUMMARY

Sample ID: B-12-7.5 **Laboratory ID:** T152749-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Anthracene	**17**	5.0	ug/kg	EPA 8270C SIM	
Benzo (a) anthracene	**17**	5.0	ug/kg	EPA 8270C SIM	
Benzo (b) fluoranthene	**12**	10	ug/kg	EPA 8270C SIM	
Benzo (a) pyrene	**11**	10	ug/kg	EPA 8270C SIM	
Chrysene	**17**	5.0	ug/kg	EPA 8270C SIM	
Fluoranthene	**46**	5.0	ug/kg	EPA 8270C SIM	
Phenanthrene	**35**	5.0	ug/kg	EPA 8270C SIM	
Pyrene	**45**	10	ug/kg	EPA 8270C SIM	

Sample ID: B-12-11.5 **Laboratory ID:** T152749-02

No Results Detected

Sample ID: B-12-15.5 **Laboratory ID:** T152749-03

No Results Detected

Sample ID: B-12-19.0 **Laboratory ID:** T152749-04

No Results Detected

Sample ID: B-12-W **Laboratory ID:** T152749-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Phenanthrene	**2.38**	1.00	ug/l	EPA 8270C SIM	

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.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

Sample ID: B-13-7.5 **Laboratory ID:** T152749-06

No Results Detected

Sample ID: B-13-11.5 **Laboratory ID:** T152749-07

No Results Detected

Sample ID: B-13-15.5 **Laboratory ID:** T152749-08

No Results Detected

Sample ID: B-13-19.0 **Laboratory ID:** T152749-09

No Results Detected

Sample ID: B-13-24.0 **Laboratory ID:** T152749-10

No Results Detected

Sample ID: B-13-W **Laboratory ID:** T152749-11

No Results Detected

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-7.5

T152749-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*87.2 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*81.5 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	**17**	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	**17**	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	**12**	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	**11**	10	"	"	"	"	"	"	
Chrysene	**17**	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-7.5

T152749-01 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	**46**	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	**35**	5.0	"	"	"	"	"	"	
Pyrene	**45**	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*84.6 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-11.5

T152749-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*86.8 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*80.5 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*94.3 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*132 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-11.5

T152749-02 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*86.4 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
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B-12-15.5

T152749-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*104 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*83.8 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*95.5 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*135 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-15.5

T152749-03 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*69.1 %*		*18-137*	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-19.0

T152749-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*105 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.2 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*205 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-19.0

T152749-04 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*83.1 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-W

T152749-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	0.050	mg/l	1	5110447	11/04/15	11/07/15	EPA 8015C	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*87.1 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.50	ug/l	1	5111121	11/11/15	11/13/15	EPA 8260B	
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	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.9 %*	*81.1-136*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	1.00	ug/l	1	5110506	11/05/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.00	"	"	"	"	"	"	
Chrysene	ND	1.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.00	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-12-W

T152749-05 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	1.00	ug/l	1	5110506	11/05/15	11/07/15	EPA 8270C SIM	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Fluorene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	**2.38**	1.00	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*100 %*		*33-141*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-7.5

T152749-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*83.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.9 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*171 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-7.5

T152749-06 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*74.2 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-11.5

T152749-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*102 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*79.9 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*137 %*	*95.7-135*		"	"	"	"	*S-GC*
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-11.5

T152749-07 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*73.3 %*		*18-137*	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-15.5

T152749-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*103 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*80.3 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*93.9 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*133 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-15.5

T152749-08 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*84.1 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-19.0

T152749-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*105 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-19.0

T152749-09 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*76.6 %*		*18-137*	"	"	"	"	

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1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-24.0

T152749-10 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	5110448	11/04/15	11/06/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*102 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	5111039	11/10/15	11/14/15	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.0 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*132 %*	*95.7-135*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	10	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.0	"	"	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-24.0

T152749-10 (Soil)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Fluoranthene	ND	5.0	ug/kg	1	5110449	11/04/15	11/07/15	EPA 8270C SIM	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*99.5 %*		*18-137*	"	"	"	"	

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-W

T152749-11 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	0.050	mg/l	1	5110447	11/04/15	11/07/15	EPA 8015C	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*73.4 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	1.0	ug/l	1	5111121	11/11/15	11/13/15	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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.2 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*81.1-136*		"	"	"	"	
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring									
Acenaphthene	ND	1.00	ug/l	1	5110506	11/05/15	11/07/15	EPA 8270C SIM	
Acenaphthylene	ND	1.00	"	"	"	"	"	"	
Anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.00	"	"	"	"	"	"	
Chrysene	ND	1.00	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

B-13-W

T152749-11 (Water)

SunStar Laboratories, Inc.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibenz (a,h) anthracene	ND	1.00	ug/l	1	5110506	11/05/15	11/07/15	EPA 8270C SIM	
Fluoranthene	ND	1.00	"	"	"	"	"	"	
Fluorene	ND	1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
Phenanthrene	ND	1.00	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*98.3 %*	*33-141*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

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 5110447 - EPA 3510C GC										
Blank (5110447-BLK1)				Prepared: 11/04/15 Analyzed: 11/06/15						
C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	*2.91*		*"*	*4.00*		*72.7*	*65-135*			
LCS (5110447-BS1)				Prepared: 11/04/15 Analyzed: 11/07/15						
C13-C28 (DRO)	17.9	0.050	mg/l	20.0		89.7	75-125			
Surrogate: p-Terphenyl	*3.48*		*"*	*4.00*		*87.1*	*65-135*			
LCS Dup (5110447-BSD1)				Prepared: 11/04/15 Analyzed: 11/07/15						
C13-C28 (DRO)	18.2	0.050	mg/l	20.0		90.8	75-125	1.20	20	
Surrogate: p-Terphenyl	*3.40*		*"*	*4.00*		*85.1*	*65-135*			
Batch 5110448 - EPA 3550B GC										
Blank (5110448-BLK1)				Prepared: 11/04/15 Analyzed: 11/06/15						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*103*		*"*	*100*		*103*	*65-135*			
LCS (5110448-BS1)				Prepared: 11/04/15 Analyzed: 11/06/15						
C13-C28 (DRO)	460	10	mg/kg	500		91.5	75-125			
Surrogate: p-Terphenyl	*100*		*"*	*100*		*100*	*65-135*			
Matrix Spike (5110448-MS1)	**Source: T152749-01**			Prepared: 11/04/15 Analyzed: 11/06/15						
C13-C28 (DRO)	450	10	mg/kg	499	ND	90.3	75-125			
Surrogate: p-Terphenyl	*102*		*"*	*99.8*		*102*	*65-135*			

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

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 5110448 - EPA 3550B GC										
Matrix Spike Dup (5110448-MSD1)	**Source: T152749-01**			Prepared: 11/04/15 Analyzed: 11/06/15						
C13-C28 (DRO)	470	10	mg/kg	499	ND	93.2	75-125	3.18	20	
Surrogate: p-Terphenyl	*105*		*"*	*99.8*		*105*	*65-135*			

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

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
Batch 5111039 - EPA 5030 GCMS										
Blank (5111039-BLK1)				Prepared: 11/10/15 Analyzed: 11/14/15						
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	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
C6-C12 (GRO)	ND	500	"							
Surrogate: Toluene-d8	*36.4*		*"*	*40.0*		*90.9*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.6*		*"*	*40.0*		*96.6*	*81.2-123*			
Surrogate: Dibromofluoromethane	*45.4*		*"*	*40.0*		*114*	*95.7-135*			
LCS (5111039-BS1)				Prepared: 11/10/15 Analyzed: 11/18/15						
Benzene	105	5.0	ug/kg	100		105	75-125			
Toluene	85.2	5.0	"	100		85.2	75-125			
Surrogate: Toluene-d8	*30.4*		*"*	*40.0*		*76.1*	*85.5-116*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*38.1*		*"*	*40.0*		*95.2*	*81.2-123*			
Surrogate: Dibromofluoromethane	*52.6*		*"*	*40.0*		*132*	*95.7-135*			
LCS Dup (5111039-BSD1)				Prepared: 11/10/15 Analyzed: 11/18/15						
Benzene	101	5.0	ug/kg	100		101	75-125	4.09	20	
Toluene	87.6	5.0	"	100		87.6	75-125	2.89	20	
Surrogate: Toluene-d8	*32.4*		*"*	*40.0*		*81.0*	*85.5-116*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*38.7*		*"*	*40.0*		*96.8*	*81.2-123*			
Surrogate: Dibromofluoromethane	*51.7*		*"*	*40.0*		*129*	*95.7-135*			

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Katherine RunningCrane

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

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
Batch 5111121 - EPA 5030 GCMS										
Blank (5111121-BLK1)				Prepared: 11/11/15 Analyzed: 11/13/15						
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	"							
C6-C12 (GRO)	ND	50	"							
Surrogate: Toluene-d8	*8.15*		*"*	*8.00*		*102*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.04*		*"*	*8.00*		*100*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.56*		*"*	*8.00*		*94.5*	*81.1-136*			
LCS (5111121-BS1)				Prepared: 11/11/15 Analyzed: 11/13/15						
Chlorobenzene	20.9	1.0	ug/l	20.0		104	75-125			
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125			
Trichloroethene	18.2	1.0	"	20.0		90.8	75-125			
Benzene	18.4	0.50	"	20.0		92.0	75-125			
Toluene	16.6	0.50	"	20.0		83.0	75-125			
Surrogate: Toluene-d8	*6.83*		*"*	*8.00*		*85.4*	*88.8-117*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*7.78*		*"*	*8.00*		*97.2*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.39*		*"*	*8.00*		*105*	*81.1-136*			
LCS Dup (5111121-BSD1)				Prepared: 11/11/15 Analyzed: 11/14/15						
Chlorobenzene	20.6	1.0	ug/l	20.0		103	75-125	1.55	20	
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125	0.189	20	
Trichloroethene	18.4	1.0	"	20.0		91.8	75-125	1.10	20	
Benzene	18.4	0.50	"	20.0		92.1	75-125	0.0543	20	
Toluene	16.3	0.50	"	20.0		81.6	75-125	1.76	20	
Surrogate: Toluene-d8	*7.13*		*"*	*8.00*		*89.1*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*7.75*		*"*	*8.00*		*96.9*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.25*		*"*	*8.00*		*103*	*81.1-136*			

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Katherine RunningCrane

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110449 - EPA 3550 ECD/GCMS										
Blank (5110449-BLK1)				Prepared: 11/04/15 Analyzed: 11/07/15						
Acenaphthene	ND	10	ug/kg							
Acenaphthylene	ND	5.0	"							
Anthracene	ND	5.0	"							
Benzo (a) anthracene	ND	5.0	"							
Benzo (b) fluoranthene	ND	10	"							
Benzo (k) fluoranthene	ND	10	"							
Benzo (g,h,i) perylene	ND	5.0	"							
Benzo (a) pyrene	ND	10	"							
Chrysene	ND	5.0	"							
Dibenz (a,h) anthracene	ND	5.0	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	10	"							
Indeno (1,2,3-cd) pyrene	ND	5.0	"							
Naphthalene	ND	5.0	"							
Phenanthrene	ND	5.0	"							
Pyrene	ND	10	"							
Surrogate: Terphenyl-dl4	*256*		*"*	*333*		*76.9*	*18-137*			
LCS (5110449-BS1)				Prepared: 11/04/15 Analyzed: 11/08/15						
Acenaphthene	229	10	ug/kg	333		68.7	50-130			
Pyrene	212	10	"	333		63.7	50-130			
Surrogate: Terphenyl-dl4	*277*		*"*	*333*		*83.0*	*18-137*			
Matrix Spike (5110449-MS1)		**Source: T152749-04**		Prepared: 11/04/15 Analyzed: 11/08/15						
Acenaphthene	222	10	ug/kg	333	ND	66.7	50-130			
Pyrene	240	10	"	333	ND	72.0	50-130			
Surrogate: Terphenyl-dl4	*279*		*"*	*333*		*83.7*	*18-137*			

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110449 - EPA 3550 ECD/GCMS										
Matrix Spike Dup (5110449-MSD1)	**Source: T152749-04**			Prepared: 11/04/15 Analyzed: 11/08/15						
Acenaphthene	181	10	ug/kg	333	ND	54.2	50-130	20.7	31	
Pyrene	221	10	"	333	ND	66.2	50-130	8.39	31	
Surrogate: Terphenyl-dl4	*266*		*"*	*333*		*80.0*	*18-137*			
Batch 5110506 - EPA 3510C GCMS/ECD										
Blank (5110506-BLK1)				Prepared: 11/05/15 Analyzed: 11/07/15						
Acenaphthene	ND	1.00	ug/l							
Acenaphthylene	ND	1.00	"							
Anthracene	ND	1.00	"							
Benzo (a) anthracene	ND	1.00	"							
Benzo (b) fluoranthene	ND	1.00	"							
Benzo (k) fluoranthene	ND	1.00	"							
Benzo (g,h,i) perylene	ND	1.00	"							
Benzo (a) pyrene	ND	1.00	"							
Chrysene	ND	1.00	"							
Dibenz (a,h) anthracene	ND	1.00	"							
Fluoranthene	ND	1.00	"							
Indeno (1,2,3-cd) pyrene	ND	1.00	"							
Fluorene	ND	1.00	"							
Naphthalene	ND	1.00	"							
Phenanthrene	ND	1.00	"							
Pyrene	ND	1.00	"							
Surrogate: Terphenyl-dl4	*20.2*		*"*	*20.0*		*101*	*33-141*			
LCS (5110506-BS1)				Prepared: 11/05/15 Analyzed: 11/07/15						
Acenaphthene	9.40	1.00	ug/l	20.0		47.0	50-130			QR-04
Pyrene	12.3	1.00	"	20.0		61.7	50-130			
Surrogate: Terphenyl-dl4	*17.2*		*"*	*20.0*		*85.9*	*33-141*			

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110506 - EPA 3510C GCMS/ECD										
LCS Dup (5110506-BSD1)				Prepared: 11/05/15 Analyzed: 11/07/15						
Acenaphthene	11.6	1.00	ug/l	20.0		58.2	50-130	21.3	31	
Pyrene	12.9	1.00	"	20.0		64.5	50-130	4.44	31	
Surrogate: Terphenyl-dl4	*15.9*		*"*	*20.0*		*79.5*	*33-141*			

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Gribi Associates	Project: Atthowe Fine Art	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	11/18/15 16:30

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).
QR-04	The pecent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
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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Chain of Custody Record

Client: Gribi Associates
Address: 1090 Adams St #K, Benicia, CA
Phone: 707-748-7743 Fax: 707-748-7763
Project Manager: J. Gribi

Date: 11/02/2015 Page: _____ Of _____
Project Name: Atthowe Fine Art
Collector: JEG / MIAC Client Project #: _____
Batch #: T15749 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 TPH-G, BTEX, OXY	8260 + OXY	8260 BTEX, OXY only	8270 SIM PAHs	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8260 Naphthalene			Laboratory ID #	Comments/Preservative	Total # of containers
B-12-7.5	11/02	1120	Soil		X			X				X			X			01		
B-12-11.5		1125			X			X				X			X			02		
B-12-15.5		1130			X			X				X			X			03		
B-12-19.0		1135			X			X				X			X			04		
B-12-W		1150	water		X			X				X			X			05		
B-13-7.5	11/02	0910	Soil		X			X				X			X			06		
B-13-11.5		0915			X			X				X			X			07		
B-13-15.5		0920			X			X				X			X			08		
B-13-19.0		0930			X			X				X			X			09		
B-13-24.0		0940			X			X				X			X			10		
B-13-W		1000	water		X			X				X			X			11		

STD. TAT
PM
11-4-15

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
MTR	11/02/15 1600	[signature]	11/2/15 1600
GSO	11-4-15 1100	[signature]	11-4-15 1100

Total # of containers
Chain of Custody seals Y/N/NA: Y
Seals intact? Y/N/NA: Y
Received good condition/cold: Y

Turn around time: STD

Notes
5.8°

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 141469

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SAMPLE RECEIVING REVIEW SHEET

BATCH # T152749

Client Name: Gribi Project: Atthowe Fine Art

Received by: Don M. Date/Time Received: 11-4-15 1100

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 6.0 °C +/- the CF (- 0.2°C) = 5.8 °C corrected temperature

cooler #2 _____°C +/- the CF (- 0.2°C) = _____°C corrected temperature

cooler #3 _____°C +/- the CF (- 0.2°C) = _____°C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☒Yes	☐No*	☐N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☐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 NM 11-4-15

Comments:

See page 2