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Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Soil and Groundwater Investigation Report
Former AutoPro
5200 Telegraph Avenue
Oakland, California

Case Number RO0000323
GeoTracker Global ID T0600100131
PSI Project No. 575-401

Dear Ms. Detterman:

Tri Star Partnership is pleased to submit the Soil and Groundwater Investigation Report for the subject site. Please refer to the attached report for details.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached Soil and Groundwater Investigation Report are true and correct to the best of my knowledge, without independently investigating or verifying the information contained therein.

If you have any questions regarding this report or any aspect of the project, please call Mr. Frank Poss with PSI at 510-434-9200.

Sincerely,



George Tuma
General Partner
Tri Star Partnership

cc: Mr. Frank Poss, PSI

**SOIL AND GROUNDWATER
INVESTIGATION REPORT**

**TEST ONLY SMOG STATION
(FORMER AUTOPRO)
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA**

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INVESTIGATION REPORT**

**TEST ONLY SMOG STATION
(FORMER AUTOPRO)
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA**

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July 17, 2012
PSI Project No: 575-401



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STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATIONS

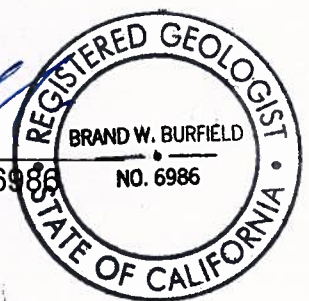
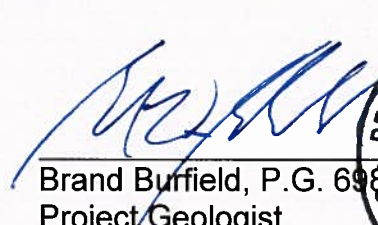
The information provided in this Soil and Groundwater Investigation Report prepared by PSI, Project Number 575-401, is intended exclusively for Tri Star Partnership for the evaluation of soil and groundwater contamination as it pertains to the subject site in Oakland, California at the time the activities were conducted. The professional services provided have been performed in accordance with practices generally accepted by other environmental professionals, geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface soil and groundwater sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or hazardous substances or chemicals in the soil or groundwater.

This report is issued with the understanding that Tri Star Partnership is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency. This report has been reviewed by a geologist who is registered in the State of California and whose signature and license number appear below.

Professional Service Industries, Inc.



Frank R. Poss, R.E.A.
Principal Consultant



Brand Burfield, P.G. 6986
Project Geologist

1.0 INTRODUCTION

1.1 SITE LOCATION AND DESCRIPTION

The Subject Property is an approximately 9,000 square foot, triangular-shaped parcel located at 5200 Telegraph Avenue, on the northeastern corner of Telegraph and Claremont Avenue in Oakland, Alameda County, California (see Figure 1 – Site Location Map). The site is asphalt-paved and is currently used as a smog testing facility (“Test Only Smog Station”) but was formerly an auto repair facility (“Autopro Inc.”) and a Shell gasoline service station. The subject site formerly included five Underground Storage Tanks (USTs) which were removed from three separate excavation areas. The three excavations include an approximately 140 square-foot former waste oil UST excavation on the northeastern portion of the property, a 750 square-foot excavation which contained three former gasoline or diesel USTs near the center of the property, and a 450 square-foot former gasoline UST (and associated piping) excavation on the southern portion of the property. Locations of the existing site improvements and the former UST excavations are depicted on Figure 2.

1.2 SITE HISTORY

Previous reports and investigations have been completed at the former UST site at 5200 Telegraph Avenue, Oakland, California, while the site was operated as Autopro, an automotive repair facility. The site is currently under the regulatory oversight of the ACEH and is identified by County Fuel Leak Case Number RO0000323 and State Geotracker Global ID T0600100131.

The property is currently developed with an active automotive smog testing station. According to regulatory documents reviewed, the Subject Property has been developed as an automotive service station since at least 1973. Information obtained at the Alameda County Department of Environmental Health indicates that the Subject Property was developed as a Shell gasoline service station until 1978 and has operated as an automotive service or smog testing station until present.

The following table summarizes the historic use of the Subject Property.

Summary	
Year(s)	Interpreted Property Use
1973, 1978	According to Street Directories the subject property is listed as Jordan Shell Service Station.
1984, 1989, 1990, 1994	According to Street Directories the subject property is listed as Auto Pro Inc. 2. In December 1990, five underground storage tanks (USTs) were removed from the site.
1999, 2003	According to Street Directories the subject property is listed as Auto Pro Inc.
2008	The subject property is Test Only SMOG Station.

This section summarizes the findings and conclusions of select previous environmental investigations and other pertinent documents (see references; Section 5) made available to PSI.

1.2.1 Underground Storage Tank Removal - 1990

Five USTs were removed from three different excavations at the subject site in December 1990 by Pacific Excavators (Pacific, 1991). Soil and groundwater samples collected from the UST fuel excavations contained levels of total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethylbenzene, total xylenes (BTEX), and total lead. In addition soil samples collected from the waste oil tank excavation contained concentrations of oil and grease (O&G). In addition, in 1991 soil was sampled and a small amount of contaminated soil was excavated and removed from the site (ESE, 1994).

1.2.2 Limited Soil and Groundwater Investigation - 1993

In April 1993, Environmental Science & Engineering Inc. (ESE) conducted a limited soil and groundwater investigation at the site. Two soil borings were drilled in the area of two former UST excavations through the backfill into native material, with soil and groundwater samples collected from the borings. Results of the investigation indicated concentrations of total semi-volatile petroleum hydrocarbons (TSVPH); these hydrocarbons were reported not to consist of diesel or gasoline (ESE, 1993).

1.2.3 Preliminary Site Assessment and Groundwater Monitoring - 1994

ESE conducted a preliminary site assessment (PSA) of the property in April 1994. The investigation consisted of drilling four soil borings, installation of four monitoring wells (MW-1 through MW-4), and collection of soil and groundwater samples. According to the investigation, soil beneath the site consisted of silty clay to between approximately 10 and 13 feet below ground surface (bgs) and groundwater was found to be approximately 11 to 13 feet bgs. Soil and groundwater samples collected during the investigation were found to contain petroleum hydrocarbons (ESE, 1994).

According to the Second Quarter 1994 Groundwater Monitoring Report, groundwater flow direction at the site is bimodal and flows both to the southwest and east, dependent upon the location at the site. According to ESE this may have been a result of the high permeability of the backfill material in the former UST excavations. The data presented in the Second Quarter 1994 monitoring report indicated that petroleum hydrocarbons are migrating off-site to the southwest and concluded that the existing monitoring well network is not sufficient to determine the extent off-site migration (ESE, 1994).

1.2.4 Site Assessment and Groundwater Monitoring - 1996

ESE conducted an additional soil and water investigation (in addition to quarterly groundwater sampling) to determine the on and off-site extent of the soil and groundwater contamination. The 1996 study included seven geoprobe soil borings which were drilled and sampled; a total of 14 soil and seven groundwater samples were collected during the investigation. A concentration of 1.5 mg/kg TPH-G was detected in the sample collected from boring AP-2 at 10 feet. The remaining soil samples were non-detect for all constituents of concern. TPH-D was detected at concentrations

ranging from 190 and 74,000 µg/l in groundwater samples from AP-1, AP-2, AP-3, and AP-6. TPH-G was detected at concentrations ranging between 1,400 and 14,000 µg/l in groundwater samples from AP-1, AP-2 and AP-3. TPH-MO was detected at a concentration of 1,900 µg/l in the groundwater sample from AP-6. In addition BTEX constituents were detected in groundwater samples from AP-1, AP-2, and AP-3. MTBE was detected at concentrations of 60 µg/l and 100 µg/l in groundwater samples from AP-2 and AP-3 (ESE, 1996).

Second Quarter 1996 groundwater monitoring activities at the site included sampling of monitoring wells MW-1 through MW-4. TPH-G and TPH-D were detected in MW-1, MW-3, and MW-4. BTEX constituents and MTBE were detected in MW-3 and MW-4 (ESE, 1996).

1.2.5 Remediation and Site Closure Report - 1999

In 1998, with approval from the ACEH, it was determined that oxygen release compounds (ORCs) would be introduced into MW-3 and MW-4 to enhance the biodegradation of the contaminant plume at the site. ORCs were placed in MW-3 and MW-4 on March 23, 1998 by QST Environmental (QST). This resulted in a slight increase of BTEX and TPH immediately after the installation of the ORCs. According to QST, the increase in hydrocarbons may have been a result of the increase in the groundwater table elevation; the increased elevation may have caused a mobilization of additional petroleum hydrocarbon constituents from the capillary fringe thus increasing concentrations. Constituents have declined or stabilized since the removal of the ORCs, and as such, QST determined that constituent reduction and degradation was enhanced by the ORC (QST, 1999).

QST conducted a risk assessment as part of their site closure report. The evaluation focused on MW-1 through MW-4, the closest wells to the source. Concentrations of constituents in MW-5 (a nearby off-site Chevron well) indicate that the plume has stabilized in the downgradient (southwest) direction. The risk assessment was tied to the identification of the constituents of concern, potential pathways in environmental media, and potential receptors of exposure. According to the report the objectives of the site conceptual model have been realized through the identification of soil and groundwater as the environmental media for remedial action via soil vapor extraction and water entrainment. Receptors of potential exposure were based on residential land use and groundwater as a drinking water resource (QST, 1999).

Based on the 1996 ESE site investigation report, off-site soil between the Chevron Station and the subject property did not appear to be impacted by hydrocarbon contamination. Groundwater samples collected at the time of the 1996 investigation indicated concentrations of TPH-G, TPH-D, BTEX, and MTBE. Based on a 1996 soil vapor study, the Autopro plume and the Chevron plume are intermingled and the downgradient concentrations could not be accurately ascertained.

Based on exposure and toxicity assessments as part of the risk assessment, and since the site is surfaced with asphalt and concrete, repeat exposure to the constituents of concern is unlikely. The Environmental Protection Agency (EPA) Preliminary Remediation Goal (PRG) for industrial properties for benzene was exceeded in one soil sample collected in 1996. According to QST, the absence of benzene in groundwater

at the site eliminates the possibility of vertical migration upward into soil vapor (QST, 1999).

1.2.6 Quarterly Monitoring and Utility Backfill Sampling – 2004

According to Second Quarter 2004 sampling data TPH-G was detected at concentrations of 530, 33,000, and 1,700 µg/l in MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 56 and 1,200 µg/l in MW-1 through MW-4. Ethylbenzene was detected at concentrations of 0.67 µg/l in MW-4 and total xylenes were detected at concentrations of 5.6 and 1.22 µg/l in MW-3 and MW-4. Total petroleum hydrocarbons as motor oil (TPH-MO), benzene, toluene and fuel oxygenates were not detected during the sampling event. Monitoring well MW-5, was damaged at the time of sampling, thus was not sampled (MACTEC, 2004).

According to Third Quarter 2004 sampling data TPH-G was detected at concentrations of 260, 13,000, and 1,800 µg/l in MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 74 and 2,500 µg/l in MW-1 through MW-4. TPH-MO, BTEX, and fuel oxygenates were not detected during the Third Quarter sampling event (MACTEC, 2004).

In August 2004, two borings were advanced to approximately 16 feet bgs adjacent to the sanitary sewer line and storm drain line to investigate if the utility corridor was a conduit for contamination migration. This investigation was performed at the request of the ACEH in a letter dated December 24, 2002. The intent of the investigation was to obtain grab groundwater samples from each of the utility trench backfills. However, the boring adjacent to the sanitary sewer line was dry. Therefore, samples were obtained only from the storm drain backfill. The samples collected from the storm drain backfill were tested for TPH-G, TPH-D, benzene, toluene, ethylbenzene and xylenes were detected at concentrations of 57,000, 29,000, 9.5, 36, 11, and 29 µg/l respectively. Concentrations of contaminants of concern in the areas explored suggest that the release from the site has migrated to the utility trenches, which have acted as a preferential pathway for the contaminants (MACTEC, 2004).

According to the Second and Third Quarter 2004 Monitoring Report (MACTEC, 2004) the slotted casing in each of the wells (MW-1 through MW-4) is below the groundwater level. Since the interval of slotted casing in a well should span the surface of the groundwater aquifer being monitored, the slotted casing in these wells is considered to have been improperly placed at construction. The report indicates that, while these improperly placed slotted intervals will likely have little impact in the monitoring of groundwater levels and contaminant trends, they may adversely affect the ability to determine the presence of free floating product in groundwater at the site.

According to Fourth Quarter 2004 sampling data TPH-G was detected at concentrations of 710, 5,100, and 2,300 µg/l in monitoring wells MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 53 and 3,300 µg/l in all wells except Chevron well MW-2. TPH-MO was detected at concentrations of 450 and 1,400 µg/l in MW-1 and MW-4. Benzene concentrations in MW-3 exceeded the California State Drinking Water Standard Maximum Contaminant Level (MCL) of 1.0 µg/l; the remaining BTEX concentrations did not exceed MCLs for this sampling event. Groundwater flow at the time of sampling was to the northeast which is inconsistent with historical flow to

the south/southwest; the reason for the change was unknown and was thought to be a result of heavy rainfall (MACTEC, 2005).

1.2.7 Site Recommendations from the ACEH - 2008

According to a letter from the Alameda County Environmental Health Services Department, dated March 28, 2008, analytical data from the Fourth Quarter 2004 Groundwater Monitoring Report was determined to be insufficient since all monitoring wells at the site have their slotted casing below groundwater. Depth to groundwater at the site ranges between 8 and 13 feet bgs; however MW-1 is screened from 15-30 feet and MW-2, MW-3, and MW-4 are screened between 15-25 feet. The ACEH expressed concerns that concentrations of contaminants detected in the groundwater samples may not be representative of actual site conditions. In addition, grab groundwater samples collected at a nearby cross-gradient site in 2007 indicated concentrations of TPH-G in all three samples. The ACEH stated that further evaluation of preferential pathways and additional off-site plume delineation is warranted at the site and that hydrocarbon concentrations in down gradient well MW-3 warranted further characterization of the onsite plume.

Since groundwater monitoring at the site had not been conducted since Fourth Quarter 2004, the ACEH recommended that quarterly monitoring be initiated and the wells be re-developed at the site. In addition it was recommended that a new site conceptual model be developed for the subject property and that all analytical data from 2001 onward be submitted via the SWRCB Geotracker website, with all reports from July 1, 2005 onward be submitted to the website as well (ACEH, 2008).

1.2.8 Addressing ACEH Recommendations

On December 16, 2008, all four monitoring wells (MW-1 through MW-4) were redeveloped via the surge-block method to remove silt or clay from the surrounding formation that were caught in the filter pack, and to improve groundwater flow into the monitoring well. After the surge, the wells were purged to remove suspended sediment from the well and to encourage new water to flow into the well from the surrounding soil formation. This series of procedures was repeated three times to each of the monitoring wells with the exception of MW-1 in which the block became lodged at 14 feet. Fortunately, the well recharged easily during purging, suggesting that the filter pack and screen are in good working order.

ACEH was concerned that the “drowned wells” are affecting the detected contaminant concentrations in the wells. On December 22, 2008, the groundwater level was at approximately 8 feet below ground surface (bgs). The references reviewed indicate that the wells are screened from 15-25 feet bgs, with the exception of MW-1 which is screened from 15-30 feet bgs. Based on this data, the top of the screens remain below groundwater levels. While we are in agreement that “drowned wells” would affect the ability to detect product (i.e. fuel or oil) floating on top of the groundwater table, in the absence of floating product, this is not expected to significantly affect the monitoring of dissolved hydrocarbon contaminants in groundwater beneath the site either from a qualitative (ability to detect) or quantitative (detected concentrations) standpoint. We have seen no mention in the references reviewed and no indication from historical analytical data that there is, or has been, free floating product on groundwater at the site.

As such, it is our opinion that the ability to accurately detect contaminant concentrations in the on-site wells is not a concern, despite their incorrect installation.

During groundwater sampling, the bottom of each well was sounded to determine the total depth. It was determined that the sounded depths below the top of casing are 26.07, 24.69, 14.54, and 15.69 feet for MW-1 through MW-4 respectively. With the exception of MW-2, these measured depths do not agree with the installation data for the wells; the depths of MW-1, MW-3, and MW-4 all measure to be about 5 to 10 feet less than their stated depth at installation.

There are several possible causes for the discrepancy between the installed and sounded depths of these wells;

1. Incorrect installation data.
2. Blockage (with a bailer for example).
3. Filling of the well casing (by siltation or man-made fill)

Sometime between the ESE 1996 report and the MACTEC 2004 monitoring report, wells MW-3 and MW-4 have seemingly “lost” 10 feet of depth. Since the sounded depths of MW-3 and MW-4 would put the current bottom of the well at or above the installed slotted casing, and since both of these wells had no problems producing groundwater, the most likely causes of the discrepancy are either incorrect installation data or a partial blockage of the wells.

1.2.9 Workplan for Site Investigation

On June 8, 2009, PSI submitted the “Workplan for Site Investigation” in response to the ACEH letter dated March 28, 2008, addressing the following concerns:

1. Monitoring Wells and Hydrologic Setting
2. Preferential Pathway Study
3. Groundwater Contaminant Plume Definition
4. Contaminant Source Area Characterization
5. Groundwater Contaminant Plume Monitoring
6. Site Conceptual Model (SCM)
7. GeoTracker Compliance

In a letter dated June 26, 2009, the ACEH generally concurred with PSI’s findings and scope of work outlined in the Workplan and requested that the proposed work and associated reports be undertaken.

1.2.10 Additional Soil and Groundwater Assessment

In a conversation with Ms. Karel Detterman of the ACEH on March 23, 2012, additional soil and groundwater assessment was discussed. Per our conversation, PSI was approved to complete three additional soil borings at the site; collect soil and groundwater samples from the borings; and to resurvey the existing monitoring wells to GeoTracker Compliance standards. A report of the findings of this investigation was to be submitted to the ACEH and then also the data obtained included in a SCM to be submitted under separate cover at a later date.



2.0 SUBSURFACE INVESTIGATION

2.1 PURPOSE AND SCOPE OF WORK

The objective of this proposed work is to address data gaps that were identified by ACEH in their 2008 letter.

- The ACEH letter recommends that adequate evaluation of the contaminant source areas be conducted and suggests that the result of the evaluation should be used to select an appropriate corrective action for the site. PSI's Workplan of June 8, 2009 identified one former dispenser island on the west side of the subject property that had not been adequately addressed. PSI advanced soil boring B-1 in this former west dispenser area and performed soil and groundwater sampling to complete this characterization.
- The ACEH also identified that the monitoring wells at the site have water levels above their screened interval and are concerned that this condition may be affecting detected contaminant concentrations in the wells. After discussions with the ACEH, PSI proposed to drill one boring immediately adjacent to Monitoring Well MW-3 and collect soil and groundwater samples to evaluate whether TPH and BTEX concentrations are comparable between the two. Boring B-2 was drilled to address this issue.
- Finally, the locations and top-of-casing (TOC) elevations for MW-1 through MW-4 were resurveyed to NAD 83 survey datum by a State of California Licensed Surveyor, to provide survey information for the monitoring wells that is up to current standards.

Additionally, PSI drilled Boring B-3 to obtain additional subsurface information near the downgradient (southwest) corner of the subject property, with the information to be used in the upcoming Site Conceptual Model.

2.2 PRE-FIELD ACTIVITIES

Prior to initiation of field drilling activities, PSI marked the site boundaries and boring locations with white paint and contacted Underground Service Alert (USA) a minimum of 48 hours prior to beginning work to locate any potential buried utilities. Additionally, PSI obtained a soil boring permit from the Alameda County Department of Public Works. A copy of the permit is included in Appendix A.

2.3 SOIL BORINGS

On May 8, 2012, three soil borings (B-1 through B-3) were drilled to investigate the soil and groundwater quality at the site. Boring B-1 was drilled in the area of the former west dispenser island, boring B-2 was drilled adjacent to monitoring well MW-3, and boring B-3 was drilled at the southwest corner of the subject property. The borings were advanced to a depth of 20 feet bgs to facilitate collection of groundwater samples. The locations of the borings are shown on Figure 2.



In the areas explored, the site was surfaced with about 4 inches of asphalt pavement. The subsurface materials encountered consisted primarily of clay in the upper 12 feet of drilling underlain by interbedded sand and clay to 20 feet bgs. Groundwater was not initially encountered in the borings, however after the borings were allowed to equilibrate overnight, groundwater rose to between about 10 and 12 feet bgs. The soil borings were logged in general accordance with the Unified Soil Classification System. A more detailed description of subsurface soil encountered is presented in the soil boring logs (see Appendix A).

Cascade Drilling of Richmond, California, a State of California-licensed driller, provided the push-drilling services for the borings using a truck-mounted, Geoprobe systems direct-push, continuous-core drill rig.

All direct-push boring and sampling equipment was decontaminated prior to use and between borings using a pressure washer to minimize the potential for cross contamination between borings. At the completion of drilling, each of the borings was backfilled with cement grout in accordance with permit requirements. Field drilling activities were conducted in general accordance with the procedures described in Appendix B.

2.3.1 Soil Sampling

Direct-push soil samples were collected using a stainless steel, continuous-core sampler, which was lined with a new, 4-foot long acetate tube prior to each drive of the sampler. Samples were labeled by location and depth (i.e. a sample collected from boring B-3 at 9 feet would be B-3-9'). Soil samples were collected from the groundwater interface and at 5-foot intervals thereafter. Soil sampling was conducted in general accordance with the procedures described in Appendix B.

Indications of contamination were noted during drilling or sampling in each of the borings. Moderate to strong hydrocarbon odor was noted near the groundwater interface in each of the borings. Field screening of soil samples was conducted during drilling using a RAE Systems MiniRAE 2000 photoionization detector (PID). The MiniRAE 2000 measures VOC concentrations in parts per million (ppm) and has an effective measurable range of 0 to 999 ppm with a resolution of 0.1 ppm and an accuracy of +/-10%. Screening of soil samples from borings B-1 through B-3 resulted in readings of up to 115 ppm. The highest PID readings in each boring were typically noted near the groundwater interface. The field screening results and field observations noted are presented in the boring logs (Appendix A).

The soil samples were logged on a chain-of-custody record and transported to Sunstar Laboratories, Inc. of Lake Forest, California, a California Department of Health Services certified environmental testing laboratory, following chain-of-custody protocol. The samples were maintained in a chilled ice cooler or laboratory sample refrigerator until their arrival at the analytical laboratory. The soil analytical results are described in Section 3.

2.3.2 Groundwater Sampling

Each boring was advanced to 20 feet bgs, and the drill rods were removed from the hole. A temporary well (new 1-inch diameter slotted PVC casing) was then placed in each hole to its total depth to ensure that the hole would not cave in prior to collection of a water sample. Since groundwater was not initially encountered in the borings on May 8, 2012, the temporary wells were allowed to equilibrate overnight.

Grab groundwater samples were collected on May 9, 2012 by lowering a small-diameter, single-use polyethylene bailer down through the PVC casing into the groundwater at the bottom of the hole. Water collected in the bailer was decanted directly into laboratory-supplied, preserved sample containers. The containers were then capped, labeled and placed in an ice-chilled cooler. Samples were labeled by location (i.e. groundwater sample from B-3 was labeled B-3-W). Groundwater sampling was conducted in general accordance with the procedures described in Appendix B.

The groundwater samples were logged on a chain-of-custody record and transported to Sunstar Laboratories, Inc., following chain-of-custody protocol. The samples were maintained in a cooler with ice or laboratory sample refrigerator until their arrival at the analytical laboratory. The groundwater analytical results are described in Section 3.

2.3.3 Monitoring Well Survey

The locations and top-of-casing (TOC) elevations for MW-1 through MW-3 were surveyed in May 2012 to NAD 83 survey datum by Morrow Surveying of West Sacramento, California; a State of California licensed Surveyor. A copy of the survey map is included in Appendix C.

3.0 INVESTIGATIVE RESULTS

3.1 LABORATORY ANALYSIS PROGRAM

Soil and groundwater samples collected during this investigation were submitted for chemical analysis to Sunstar Laboratories, Inc. of Lake Forest, California, a California Department of Health Services, Environmental Laboratory Accreditation Program certified laboratory. The samples were analyzed for;

- Total Petroleum Hydrocarbons Speciation (TPH-G, TPH-D, and TPH-MO) (EPA Method 8015M)
- Volatile Organic Compounds (VOCs) (EPA Method 8260B)

A copy of the laboratory reports and chain of custody records are included in Appendix D.

3.2 CHEMICAL ANALYSIS RESULTS

3.2.1 Soil Samples

For borings B-1 through B-3, the soil samples collected at the soil/groundwater interface and at approximately 5 foot intervals, thereafter. Analysis of the soil indicates the following;

- None of the tested constituents were detected at or above their respective laboratory reporting levels in the samples collected from boring B-1.
- TPH-G was detected in soil samples collected from Boring B-3 at 9 and 15 feet bgs at 670 and 56 mg/kg, respectively. TPH-G was also detected in the soil sample collected at 15 feet in boring B-2 at 11 mg/kg.
- TPH-D was detected only in the soil sample collected from Boring B-3 at 9 feet bgs at 140 mg/kg.
- TPH-MO was not detected at or above its laboratory reporting limit in the soil samples collected from any of the borings.
- Numerous VOCs were also detected in soil samples collected in Borings B-2 and B-3. The VOCs detected are commonly associated with gasoline impact and included ethylbenzene at 0.007 mg/kg and total xylenes at 0.063 mg/kg in the soil sample collected at 9 feet bgs, and benzene at 0.0066 mg/kg in the soil sample collected at 15 feet bgs.

PSI compared the detected concentrations of TPH-G, TPH-D and VOCs with their respective Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for commercial/industrial sites where groundwater is a non-drinking water resource. All of the detected contaminants were at concentrations below their respective ESL with the exception of TPH-G and TPH-D in the soil sample collected in Boring B-3 at 9 feet bgs. A summary of the laboratory test results for the soil analysis is presented in Table 1.



3.2.2 Groundwater Samples

A sample of groundwater from each boring was submitted for analysis. The results of the groundwater analyses indicate the following:

- None of the tested constituents were detected at or above their respective laboratory reporting levels in the samples collected from B-1.
- TPH-G was detected in the groundwater samples collected from Borings B-2 and B-3 at 3.9 and 3.1 mg/L, respectively.
- TPH-D was detected in the groundwater samples collected from Borings B-2 and B-3 at 2.1 and 0.83 mg/L, respectively.
- TPH-MO was not detected at or above its respective laboratory reporting limit in any of the groundwater samples.
- Numerous VOCs were also detected in the groundwater samples collected in Borings B-2 and B-3. The VOCs detected are commonly associated with gasoline impact and included the following:
 - Benzene in Boring B-2 at 0.12 mg/L.
 - Toluene in Borings B-2 and B-3 at 0.0015 and 0.022 mg/L, respectively.
 - Ethylbenzene in Borings B-2 and B-3 at 0.0022 and 0.02 mg/L, respectively.
 - Total Xylenes in Borings B-2 and B-3 at 0.005 and 0.0231 mg/L, respectively.

The groundwater analytical results were compared to the RWQCB ESLs for commercial/industrial sites where groundwater is a non-drinking water resource. None of the detected compounds in the groundwater samples were above their respective ESLs with the exception of the following:

- TPH-G in Borings B-2 and B-3 at 3.9 and 2.1 mg/L, respectively.
- TPH-D in Borings B-2 and B-3 at 2.1 and 0.83 mg/L, respectively.
- Benzene in Boring B-3 at 0.12 mg/L.

A summary of the laboratory test results for the groundwater analysis is presented in Table 1.

3.3 DISCUSSION

The objective of the proposed work was to address issues brought forth by the ACEH. The following sections discuss the collected data obtained to address these issues.

3.3.1 Contaminant Source Characterization

Boring B-1 was drilled in the area of a former dispenser island on the west side of the subject property. Based on the soil and groundwater results from samples collected from this boring (none of the tested constituents were detected) the former west dispenser

island does not appear to be a source for the impacted soil and groundwater at the subject site.

3.3.2 Incorrectly Constructed Wells

Boring B-2 was drilled immediately adjacent to monitoring well MW-3 to evaluate whether the “drowned” condition of the monitoring wells provides adequate evaluation of contaminant concentrations in groundwater at the subject site. The following presents a review for the characterization:

- TPH-G has ranged from 0.23 to 6.9 mg/L in MW-3 over the past four sampling events. The TPH-G concentration detected in B-2 was 3.9 mg/L.
- TPH-D has ranged from 0.8 to 1.9 mg/L in MW-3 over the past four sampling events. The TPH-D concentration detected in B-2 was 2.1 mg/L.
- Benzene has not been detected in MW-3 over the past four sampling events, and benzene was not detected in B-2.
- Toluene has ranged from 0.00063 to 0.0011 mg/L in MW-3 over the past four sampling events. The toluene concentration detected in B-2 was 0.0015 mg/L.
- Ethylbenzene has ranged from 0.00064 to 0.0025 mg/L in MW-3 over the past four sampling events. The toluene concentration detected in B-2 was 0.0022 mg/L.
- Total xylenes have ranged from 0.0022 to 0.0072 mg/L in MW-3 over the past four sampling events. The toluene concentration detected in B-2 was 0.005 mg/L.

The groundwater results from Boring B-2 appear to be within the expected ranges found in the recent analytical results from MW-3; therefore, it is our conclusion that the monitoring wells appear to provide adequate characterization for groundwater evaluation of groundwater concentrations at the site.

3.3.3 Re-Survey of Existing Wells

PSI had the wells re-surveyed in May 2012 to NAD 83 survey datum by a State of California Licensed Surveyor. The survey indicated a relative change in elevation between the wells of no more than 0.05 feet. Since the relative change in elevation is minimal, the groundwater flow directions depicted in previous reports should be considered relatively accurate.

The new survey data will be uploaded to the State GeoTracker database as required, and the new TOC elevations will be used in all future monitoring reports.

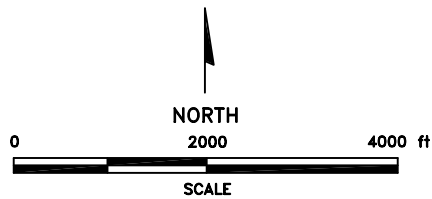
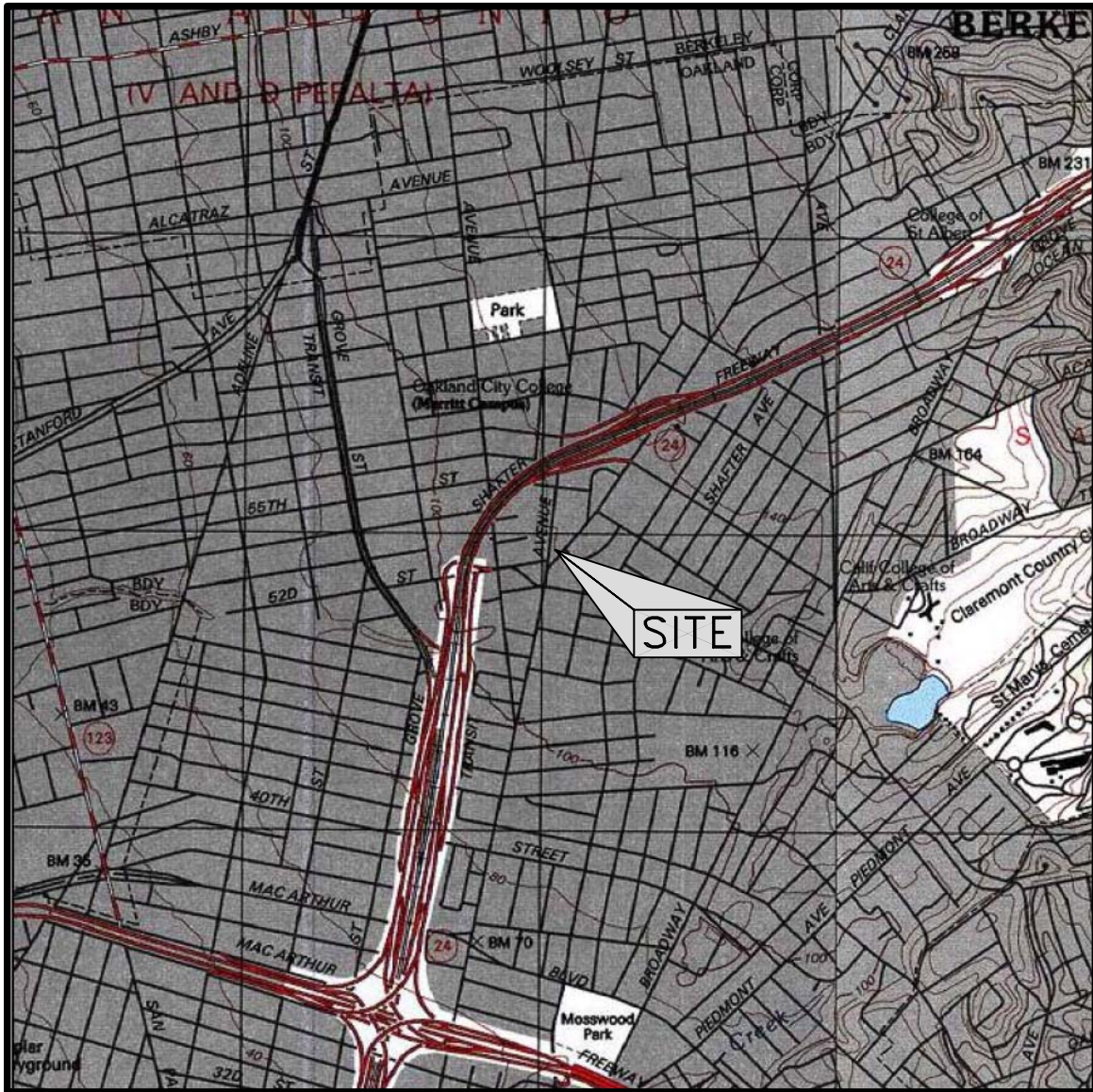
4.0 CONCLUSIONS

PSI collected soil and groundwater samples from the subject site on May 8 and 9, 2012 to comply with requirements for further characterization of the site by the ACEH. Based on the results of the investigation, the following conclusions can be reached.

- The former west dispenser island evaluated in this investigation does not appear to be a source for the impacted soil and groundwater at the subject site.
- The monitoring wells appear to provide adequate characterization of contaminant concentrations in groundwater at the site.
- New survey data indicates that groundwater flow directions presented in previous reports are relatively accurate.

PSI is in the process of completing a Site Conceptual Model (SCM) for the subject site. PSI will incorporate this information, as well as the results obtained from Boring B-3, in the SCM.

FIGURES



REFERENCE:

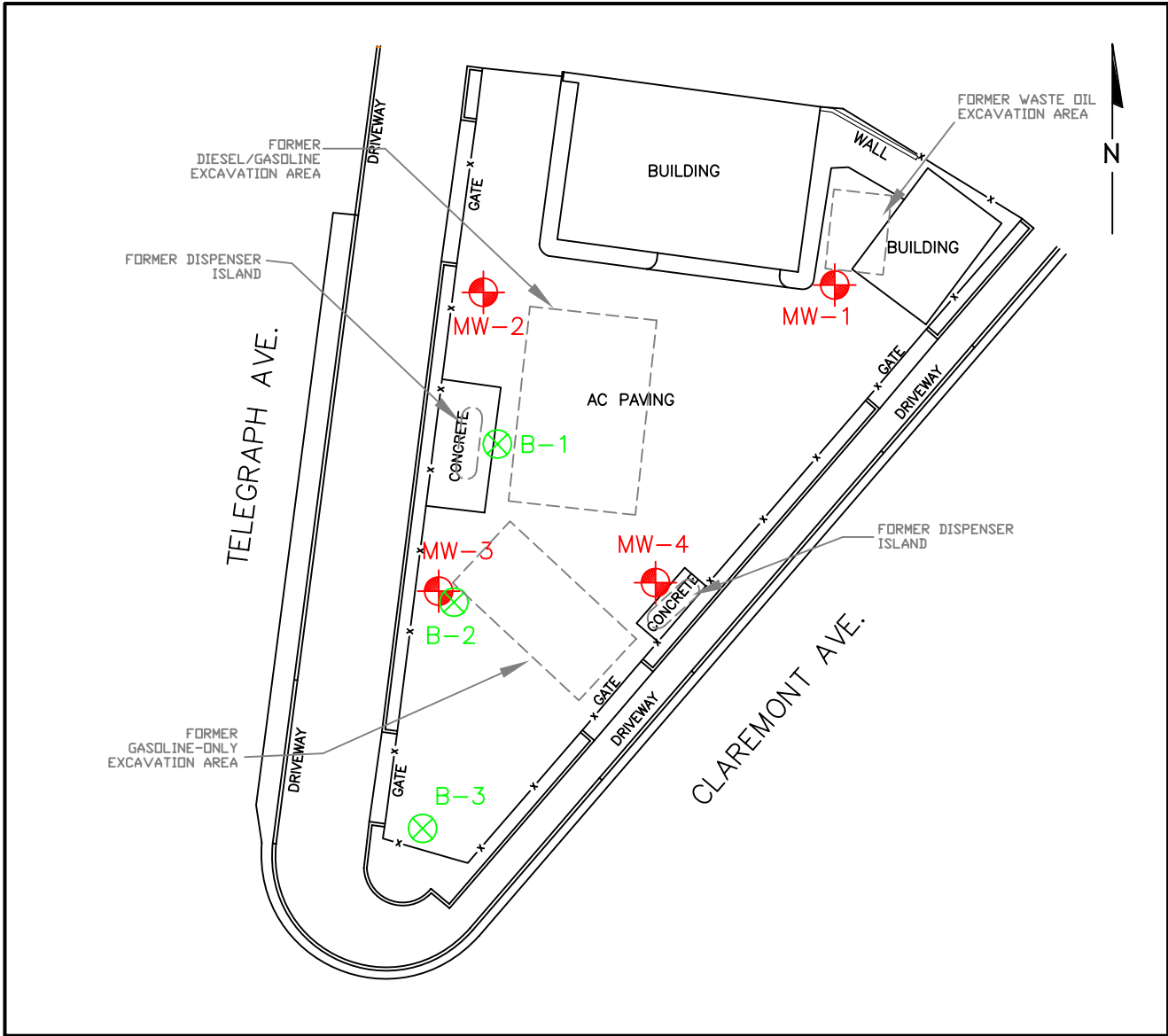
U.S.G.S. OAKLAND WEST AND OAKLAND EAST, CALIFORNIA, 7.5 MINUTE SERIES TOPOGRAPHIC MAPS, DATED 1993 AND 1997.






*Information
To Build On
Engineering • Consulting • Testing*

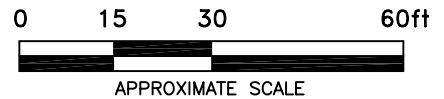
4703 Tidewater Avenue, Suite B
Oakland, California 94601
(510) 434-9200

Project Name: TEST ONLY SMOG STATION (FORMER AUTOPRO) 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA		Drawn By: S.R.	Date: 5/12	File No.: 401-1-1	Figure No.: 1
Title: SITE LOCATION MAP		Approved By: B.B.	Project No.: 575-401-1		





LEGEND

-  - GROUNDWATER MONITORING WELL LOCATION
-  - APPROXIMATE GEOPROBE LOCATION (5-8-12)
-  - FENCE



NOTES

1. BASE MAP TAKEN FROM MORROW SURVEYING, DRW. NO. 6381-043, DATED MAY, 2012.

 Information To Build On Engineering • Consulting • Testing		4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200			
Project Name: AUTOPRO 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA		Drawn By: S.R.	Date: 7/12	File No.: 401-1-2	
Title: BORING LOCATION MAP		Approved By: B.B.	Project No.: 575-401-1		

TABLE

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
 Test Only SMOG Station (Former Autopro)
 5200 Telegraph Avenue, Oakland, California

SAMPLE NUMBER	DATE SAMPLED	SAMPLE MATRIX	DEPTH SAMPLED (FEET)	TPH - GASOLINE	TPH - DIESEL	TPH - MOTOR OIL	Volatile Organic Compounds*
B-1-10	5/8/2012	Soil	10	<10	<10	<10	ND
B-1-15	5/8/2012	Soil	15	<10	<10	<10	ND
B-1-20	5/8/2012	Soil	20	<10	<10	<10	ND
B-2-9	5/8/2012	Soil	9	<10	<10	<10	ND
B-2-15	5/8/2012	Soil	15	11	<10	<10	ND
B-2-20	5/8/2012	Soil	20	<10	<10	<10	ND
B-3-9	5/8/2012	Soil	9	670	140	<10	ethylbenzene (0.007) total xylenes (0.063)
B-3-15	5/8/2012	Soil	15	56	<10	<10	benzene (0.0066)
B-3-20	5/8/2012	Soil	20	<10	<10	<10	ND
B-1-W	5/9/2012	Water	---	<0.1	<0.1	<0.1	ND
B-2-W	5/9/2012	Water	---	3.9	2.1	<0.1	toluene (0.0015) ethylbenzene (0.0022) total xylenes (0.005)
B-3-W	5/9/2012	Water	---	3.1	0.83	<0.1	benzene (0.12) toluene (0.022) ethylbenzene (0.02) total xylenes (0.0231)

Notes: Analytical results for soil are reported as total concentration in milligrams per kilogram (mg/kg)

Analytical results for water are reported as total concentration in milligrams per liter (mg/L)

< = not detected at presented laboratory reporting limit.

Volatile Organic Compounds* = Only benzene, toluene, ethylbenzene, total xylenes, and methyl tert butyl ether results are presented. Other detected VOCs are shown in Appendix D.

ND = Not detected at laboratory reporting limit presented in Appendix D.

APPENDIX A

SOIL BORING LOGS AND DRILLING PERMIT



SOIL BORING LOG

BORING NO:	B-1
SHEET	1 OF 1



CLIENT NAME: Tristar		
PROJECT LOCATION: 5200 Telegraph Avenue, Oakland, California		
PROJECT NUMBER: 575-401-1	DATE: 5/8/2012	
DRILLING COMPANY: Cascade Drilling		
DRILLING METHOD: Direct-Push Geoprobe Rig		

GROUNDWATER LEVELS		
DATE	COMMENTS	DEPTH BGS
5/9/2012		12.4'

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	DESCRIPTION	PID (ppm)	REMARKS
1				Approximately 4 inches of asphalt concrete		Paved at surface
1.5	B-1-1	X		CLAY (CL), dark brown, moist, few fine sand	13.6	No odor
3.5	B-1-3	X		dark reddish brown, trace fine sand	13.5	No odor
6.5	B-1-6	X			<10	No odor
8.5	B-1-8.5	X				
9.5	B-1-9	X				
10.5	B-1-10	X		olive gray, few sand		Moderate hydrocarbon odor
11.5	B-1-11	X			20.5	
12.5	B-1-12	X		Sandy CLAY(CL), olive gray, moist, fine sand		
14.5	B-1-15	X		Clayey SAND (SC), medium brown, moist, fine to medium sand		No odor
16.5				Clay (CL), medium brown, moist, trace fine sand		
18.5				SAND (SP), medium brown, damp to moist, fine sand		
19.5				Clayey SILT (ML), medium brown, moist, no sand		
20.5	B-1-19	X		Gravelly SAND (SW), medium to dark brown, moist, fine to coarse sand, fine gravel	<10	No odor
21	B-1-20	X				
21	End of boring at 20 feet below grade.					
21	Groundwater not encountered at time of drilling - rose to 12.4 feet bgs on 5/9/12.					
21	Borehole backfilled with cement grout and topped with asphalt patch.					

Reviewed By: _____ LOGGED BY: STEPHEN RAMOS

SOIL BORING LOG

BORING NO:	B-2
SHEET	1 OF 1



CLIENT NAME: Tristar	
PROJECT LOCATION: 5200 Telegraph Avenue, Oakland, California	
PROJECT NUMBER: 575-401-1	DATE: 5/8/2012
DRILLING COMPANY: Cascade Drilling	
DRILLING METHOD: Direct-Push Geoprobe Rig	

GROUNDWATER LEVELS		
DATE	COMMENTS	DEPTH BGS
5/9/2012		11.2'

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	DESCRIPTION	PID (ppm)	REMARKS
1				Approximately 4 inches of asphalt concrete		Paved at surface
2	B-2-1	✓		CLAY (CL), dark brown, moist, some fine to medium sand	22.3	No odor
3						
4	B-2-3	✓			20.1	No odor
5						
6				dark reddish brown		Slight hydrocarbon odor
7	B-2-6	✓			24.3	
8						
9	B-2-9	✓		Sandy CLAY (CL), medium reddish brown, moist, fine to medium sand		Slight hydrocarbon odor
10						
11						
12	B-2-12	✓		CLAY (CL), gray, moist		Moderate to strong hydrocarbon odor
13						
14					115	
15	B-2-15	✓		Clayey SAND (SC), greenish olive gray, moist, fine to coarse sand		Strong hydrocarbon odor
16						
17	B-2-16	✓		Silty CLAY (CL), greenish olive gray, moist, trace fine sand	26.4	
18						
19				Clayey SAND (SC), medium brown, moist, fine sand		No odor
20	B-2-20	✓			18.8	
21				End of boring at 20 feet below grade.		
22				Groundwater not encountered at time of drilling - rose to 11.2 feet bgs on 5/9/12.		
23				Borehole backfilled with cement grout and topped with asphalt patch.		
24						

Reviewed By: _____ LOGGED BY: STEPHEN RAMOS

SOIL BORING LOG

BORING NO:	B-3
SHEET	1 OF 1



CLIENT NAME:	Tristar		
PROJECT LOCATION:	5200 Telegraph Avenue, Oakland, California		
PROJECT NUMBER:	575-401-1	DATE:	5/8/2012
DRILLING COMPANY:	Cascade Drilling		
DRILLING METHOD:	Direct-Push Geoprobe Rig		

GROUNDWATER LEVELS		
DATE	COMMENTS	DEPTH BGS
5/9/2012		10.2'

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	DESCRIPTION	PID (ppm)	REMARKS
1				Approximately 4 inches of asphalt concrete		Paved at surface
1	B-3-1	X		CLAY (CL), dark brown, moist, some fine to medium sand	21.1	No odor
2						
3	B-3-3	X			21.8	No odor
4						
5						
6	B-3-6	X		trace sand	25.3	
7						
8				olive gray, few fine sand		Slight to moderate hydrocarbon odor
9	B-3-9	X			27.3	Moderate hydrocarbon odor
10						
11						
12	B-3-12	X				
13				Clayey SAND (SC), olive gray, moist, fine to medium sand		
14				CLAY (CL), olive gray, moist, fine to medium sand		Moderate hydrocarbon odor
15	B-3-15	X				
16						
17	B-3-16	X		Clayey SAND (SC), olive gray, moist, fine to coarse sand	31.6	Slight hydrocarbon odor
18						
19				medium reddish brown	16.9	No odor
20	B-3-20	X				
21				End of boring at 20 feet below grade.		
22				Groundwater not encountered at time of drilling - rose to 10.2 feet bgs on 5/9/12.		
23				Borehole backfilled with cement grout and topped with asphalt patch.		
24						

Reviewed By: _____ LOGGED BY: STEPHEN RAMOS

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 05/01/2012 By jamesy

Permit Numbers: W2012-0301
Permits Valid from 05/04/2012 to 05/18/2012

Application Id: 1335305530574
Site Location: 5200 Telegraph Avenue
Project Start Date: 05/04/2012
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland
Completion Date:05/18/2012

Applicant: PSI - Frank Poss
4703 Tidewater Avenue, Suite B, Oakland, CA 94601
Property Owner: George Tuma Tristar Properties
30 Arjang Court, Alamo, CA 94507
Client: ** same as Property Owner **
Contact: Frank Poss

Phone: 510-434-9200 x11
Phone: 925-831-8862
Phone: 510-434-9200 x11
Cell: 510-750-3365

Receipt Number: WR2012-0125 Total Due: \$265.00
Payer Name : Frank Poss Total Amount Paid: \$265.00
Paid By: VISA PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 3 Boreholes
Driller: Cascade Drilling - Lic #: 938110 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0301	05/01/2012	08/02/2012	3	3.00 in.	15.00 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. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. 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.
4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org 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.
5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no

Alameda County Public Works Agency - Water Resources Well Permit

case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. 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.

7. 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.

8. 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.

APPENDIX B

STANDARD FIELD PROCEDURES



FIELD PROCEDURES

I. ADVANCING OF SOIL BORINGS AND COLLECTION OF SAMPLES

The following procedures were used for advancing soil borings and collecting soil samples at the site:

1. Prior to the commencement of soil boring activities at the site, boring locations were marked with white paint. Underground Service Alert (USA) was contacted to identify underground utilities in the vicinity of the soil borings.
2. A State of California licensed drilling company conducted soil boring and sampling activities. The soil borings were advanced using the Geoprobe direct push method. Flush-threaded rods with a stainless steel sampler were advanced into the ground using a hydraulic press and percussion hammer. The opening of the sampler was sealed with a drive tip held in place by a threaded pin.
3. Soil samples were collected using a 1.2 meter (4-foot) long, 0.05 meter (2-inch) inside diameter macro-core stainless steel sampler. Soil samplers were washed between borings with Alconox soap followed by two deionized water rinses. The sampler was lined with clean acetate sleeves.
4. After the sampler was retrieved, the sleeves were extracted from the sampler without disturbing the sample. The ends of the sample were covered with Teflon™ sheets and capped with polyethylene end caps. The sample was labeled and placed in a zip-lock bag in a chilled cooler prior to delivery to the laboratory.
5. Soil samples were assigned identification numbers such as B-1-5, where B-1 indicates the boring designation and -5 indicates that the sample was collected from 5 feet bgs. The samples were labeled with the project number, date and time of sample collection, sampling depth, and client name.
6. Chain-of-custody procedures using chain-of-custody records were implemented during handling and transportation of the samples to the laboratory for analyses.
7. Boring logs were prepared for the soil borings under the supervision of a California-Registered Geologist. Soil from each sample was described in accordance with Unified Soil Classification System by a PSI geologist and recorded on a field-boring log. The data recorded on the logs were based on examination of soil samples retrieved in the tubes, and drilling conditions observed in the field. Boring logs include information regarding the location of each boring, geologic descriptions of materials encountered, occurrence of groundwater (if applicable) and photoionization detector (PID) measurements of the soil samples collected.

II. BACKFILL OF SOIL BORINGS

The following procedures were used to backfill the soil borings at the site:

1. Soil borings were backfilled to grade with Portland grout slurry. The slurry consisted of neat cement and 5% bentonite powder.

III. FIELD DOCUMENTATION OF SAMPLING PROCEDURES

The following outline describes the procedures followed by PSI for proper sampling documentation.

1. Sampling procedures were documented in field notes that contain:

1. Sample collection procedures
2. Date and time of collection
3. Date of shipping
4. Sample collection location
5. Sample identification number(s)
6. Intended analysis
7. Quality control samples
8. Sample preservation
9. Name of sampler
10. Any pertinent observations

2. Samples were labeled with the following information:

1. Sample designation number
2. Date and time sample was collected
3. Sampler's name
4. Sample preservatives (if required)
5. Project Name

3. The following was the sample designation system for the site:

For soil samples, the samples were labeled B-(Boring Number)-(Depth) (i.e. sample collected from boring B-1 at 5 feet would be B-1-5).

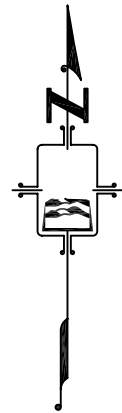
For groundwater samples, the samples were labeled B-(Boring Number)-W (i.e. sample collected from boring B-1 would be B-1-W).

4. Handling of the samples was documented on a chain of custody form, which included:

1. Project name
2. Site location
3. Signature of collector
4. Date and time of collection
5. Sample identification number
6. Number of containers in sample set
7. Description of sample and container
8. Name and signature of persons, and the companies or agencies they represent, who are involved in the chain of possession
9. Inclusive dates and times of possession
10. Analyses to be completed

APPENDIX C

SURVEY MAP



Monitoring Well Exhibit

Prepared For:
PSI

BASIS OF COORDINATES AND ELEVATIONS:
 COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK.
 COORDINATE DATUM IS NAD 83.
 REFERENCE GEOID IS GEOID03.
 VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL.PVC	EL.RIM
MW-1	2132544.8	6052953.3	37.8384385	-122.2617319	123.49	123.77
MW-2	2132543.4	6052891.2	37.8384316	-122.2619467	122.69	122.96
MW-3	2132490.9	6052883.3	37.8382869	-122.2619706	121.87	122.32
MW-4	2132492.2	6052921.6	37.8382925	-122.2618383	122.30	122.75
B1	2132516.7	6052893.7	37.8383584	-122.2619364		
B2	2132489.0	6052886.1	37.8382818	-122.2619608		
B3	2132449.1	6052880.5	37.8381719	-122.2619777		



Autopro
5200 Telegraph Ave.
Oakland
Alameda County
California



1255 Starboard Drive
West Sacramento
California 95691
(916) 372-8124
mark@morrowsurveying.com

Date: May, 2012
Field: 5-23-12 DB
Scale: 1"=20'
Revised:
Field Book: MW-55
Dwg. No. 6381-043 MAM

APPENDIX D

LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS



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

10 July 2012

Frank Poss
PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland, CA 94601
RE: Tristar

Enclosed are the results of analyses for samples received by the laboratory on 05/10/12 09:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-10	T120788-01	Soil	05/08/12 10:22	05/10/12 09:20
B-1-15	T120788-02	Soil	05/08/12 10:30	05/10/12 09:20
B-1-20	T120788-03	Soil	05/08/12 10:42	05/10/12 09:20
B-2-9	T120788-04	Soil	05/08/12 11:15	05/10/12 09:20
B-2-15	T120788-05	Soil	05/08/12 11:21	05/10/12 09:20
B-2-20	T120788-06	Soil	05/08/12 11:27	05/10/12 09:20
B-3-9	T120788-07	Soil	05/08/12 11:57	05/10/12 09:20
B-3-15	T120788-08	Soil	05/08/12 12:02	05/10/12 09:20
B-3-20	T120788-09	Soil	05/08/12 12:06	05/10/12 09:20
B-1-W	T120788-10	Water	05/09/12 14:20	05/10/12 09:20
B-2-W	T120788-11	Water	05/09/12 14:28	05/10/12 09:20
B-3-W	T120788-12	Water	05/09/12 14:40	05/10/12 09:20

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.



Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-10
T120788-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		133 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/15/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-10
T120788-01 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/15/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-10
T120788-01 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	5.0	ug/kg	1	2051018	05/10/12	05/15/12	EPA 8260B	
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	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		125 %	95.7-135		"	"	"	"	
Surrogate: Toluene-d8		102 %	85.5-116		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-15
T120788-02 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		129 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/15/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-15
T120788-02 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/15/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-15
T120788-02 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	5.0	ug/kg	1	2051018	05/10/12	05/15/12	EPA 8260B	
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	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		126 %	95.7-135		"	"	"	"	
Surrogate: Toluene-d8		100 %	85.5-116		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-20
T120788-03 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		124 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-20
T120788-03 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-20
T120788-03 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		117 %	95.7-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	85.5-116		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-9
T120788-04 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		120 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/14/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-9
T120788-04 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/14/12	EPA 8260B
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
Benzene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"
m,p-Xylene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-9
T120788-04 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	5.0	ug/kg	1	2051018	05/10/12	05/14/12	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		128 %	95.7-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %	85.5-116		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-15
T120788-05 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	11	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 107% 65-135 " " " "

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	13	5.0	"	"	"	"	"	"	
sec-Butylbenzene	5.4	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-15
T120788-05 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"
n-Propylbenzene	6.9	5.0	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
Benzene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"
m,p-Xylene	ND	5.0	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-15
T120788-05 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Tert-amyl methyl ether	ND	20	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		124 %	95.7-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %	85.5-116		"	"	"	"	

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.



Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-20
T120788-06 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		128 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-20
T120788-06 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-20
T120788-06 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		115 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		132 %	95.7-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %	85.5-116		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-401-1 Project Manager: Frank Poss	Reported: 07/10/12 09:38
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B-3-9
T120788-07 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	670	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	D-02
C13-C28 (DRO)	140	10	"	"	"	"	"	"	D-02
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		116 %	65-135	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	100	5.0	"	"	"	"	"	"	
sec-Butylbenzene	50	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-9
T120788-07 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	150	5.0	"	"	"	"	"	"
p-Isopropyltoluene	340	5.0	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"
Naphthalene	8.6	5.0	"	"	"	"	"	"
n-Propylbenzene	230	5.0	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	33	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	13	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
Benzene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	7.0	5.0	"	"	"	"	"	"
m,p-Xylene	63	5.0	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-401-1 Project Manager: Frank Poss	Reported: 07/10/12 09:38
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B-3-9
T120788-07 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Tert-amyl methyl ether	ND	20	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		110 %	95.7-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.6 %	85.5-116		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-15
T120788-08 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	56	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	D-02
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		128 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	22	5.0	"	"	"	"	"	"	
sec-Butylbenzene	22	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-15
T120788-08 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	55	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	14	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	60	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	6.6	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-15
T120788-08 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Tert-amyl methyl ether	ND	20	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	81.2-123		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		140 %	95.7-135		"	"	"	"	S-GC
<i>Surrogate: Toluene-d8</i>		96.1 %	85.5-116		"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
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Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-20
T120788-09 (Soil)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	2051019	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 130 % 65-135 " " " "

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-20
T120788-09 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-20
T120788-09 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	5.0	ug/kg	1	2051018	05/10/12	05/16/12	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		145 %	81.2-123		"	"	"	"	S-GC
<i>Surrogate: Dibromofluoromethane</i>		112 %	95.7-135		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.0 %	85.5-116		"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-W
T120788-10 (Water)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	0.10	mg/l	1	2051009	05/10/12	05/12/12	EPA 8015C	
C13-C28 (DRO)	ND	0.10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		98.4 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-W
T120788-10 (Water)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-1-W
T120788-10 (Water)

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

Volatile Organic Compounds by EPA Method 8260B

o-Xylene	ND	0.50	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		138 %	81-136		"	"	"	"	S-GC
<i>Surrogate: Toluene-d8</i>		93.4 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-401-1 Project Manager: Frank Poss	Reported: 07/10/12 09:38
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B-2-W
T120788-11 (Water)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	3.9	0.10	mg/l	1	2051009	05/10/12	05/12/12	EPA 8015C	D-02
C13-C28 (DRO)	2.1	0.10	"	"	"	"	"	"	D-02
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		<i>108 %</i>	<i>65-135</i>						

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	32	1.0	"	"	"	"	"	"	
sec-Butylbenzene	7.4	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-W
T120788-11 (Water)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	29	1.0	"	"	"	"	"	"
p-Isopropyltoluene	5.0	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.4	1.0	"	"	"	"	"	"
n-Propylbenzene	86	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	1.7	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	1.5	0.50	"	"	"	"	"	"
Ethylbenzene	2.2	0.50	"	"	"	"	"	"
m,p-Xylene	5.0	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-2-W
T120788-11 (Water)

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

Volatile Organic Compounds by EPA Method 8260B

Tert-amyl methyl ether	ND	2.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.5 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		126 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-W
T120788-12 (Water)

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

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	3.1	0.10	mg/l	1	2051009	05/10/12	05/12/12	EPA 8015C	D-02
C13-C28 (DRO)	0.83	0.10	"	"	"	"	"	"	D-02
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		109 %	65-135	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	7.3	1.0	"	"	"	"	"	"	
sec-Butylbenzene	9.0	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.4	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-W
T120788-12 (Water)

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

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	91	1.0	"	"	"	"	"	"
p-Isopropyltoluene	6.1	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	9.6	1.0	"	"	"	"	"	"
n-Propylbenzene	66	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	3.0	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.0	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	120	0.50	"	"	"	"	"	"
Toluene	22	0.50	"	"	"	"	"	"
Ethylbenzene	20	0.50	"	"	"	"	"	"
m,p-Xylene	21	1.0	"	"	"	"	"	"
o-Xylene	2.1	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

B-3-W

T120788-12 (Water)

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

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2051016	05/10/12	05/13/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>111 %</i>	<i>83.5-119</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Dibromofluoromethane</i>		<i>130 %</i>	<i>81-136</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>98.2 %</i>	<i>88.8-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Wendy Hsiao, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-401-1 Project Manager: Frank Poss	Reported: 07/10/12 09:38
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051009 - EPA 3510C GC

Blank (2051009-BLK1)			Prepared: 05/10/12 Analyzed: 05/12/12							
C6-C12 (GRO)	ND	0.50	mg/l							
C13-C28 (DRO)	ND	0.50	"							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	4.16		"	4.00		104	65-135			

LCS (2051009-BS1)			Prepared: 05/10/12 Analyzed: 05/12/12							
C13-C28 (DRO)	17.3	0.50	mg/l	20.0		86.3	75-125			
Surrogate: <i>p</i> -Terphenyl	3.85		"	4.00		96.2	65-135			

Matrix Spike (2051009-MS1)			Source: T120784-01		Prepared: 05/10/12 Analyzed: 05/12/12					
C13-C28 (DRO)	19.7	0.50	mg/l	20.0	0.715	94.7	75-125			
Surrogate: <i>p</i> -Terphenyl	4.18		"	4.00		105	65-135			

Matrix Spike Dup (2051009-MSD1)			Source: T120784-01		Prepared: 05/10/12 Analyzed: 05/12/12					
C13-C28 (DRO)	20.6	0.50	mg/l	20.0	0.715	99.4	75-125	4.68	20	
Surrogate: <i>p</i> -Terphenyl	4.15		"	4.00		104	65-135			

Batch 2051019 - EPA 3550B GC

Blank (2051019-BLK1)			Prepared: 05/10/12 Analyzed: 05/12/12							
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	109		"	100		109	65-135			

LCS (2051019-BS1)			Prepared: 05/10/12 Analyzed: 05/12/12							
C13-C28 (DRO)	490	10	mg/kg	500		98.4	75-125			
Surrogate: <i>p</i> -Terphenyl	118		"	100		118	65-135			

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.

Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051019 - EPA 3550B GC

Matrix Spike (2051019-MS1)

Source: T120788-08

Prepared: 05/10/12 Analyzed: 05/12/12

C13-C28 (DRO)	560	10	mg/kg	500	9.0	110	75-125			
Surrogate: <i>p</i> -Terphenyl	134		"	100		134	65-135			

Matrix Spike Dup (2051019-MSD1)

Source: T120788-08

Prepared: 05/10/12 Analyzed: 05/12/12

C13-C28 (DRO)	500	10	mg/kg	500	9.0	97.2	75-125	11.9	20	
Surrogate: <i>p</i> -Terphenyl	107		"	100		107	65-135			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051016 - EPA 5030 GCMS

Blank (2051016-BLK1)

Prepared: 05/10/12 Analyzed: 05/13/12

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051016 - EPA 5030 GCMS

Blank (2051016-BLK1)

Prepared: 05/10/12 Analyzed: 05/13/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
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	"							
Ethanol	ND	500	"							
Surrogate: 4-Bromofluorobenzene	8.35		"	8.00		104	83.5-119			
Surrogate: Dibromofluoromethane	10.8		"	8.00		135	81-136			
Surrogate: Toluene-d8	7.27		"	8.00		90.9	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051016 - EPA 5030 GCMS

LCS (2051016-BS1)

Prepared: 05/10/12 Analyzed: 05/15/12

Chlorobenzene	20.2	1.0	ug/l	20.0		101	75-125			
1,1-Dichloroethene	20.7	1.0	"	20.0		103	75-125			
Trichloroethene	20.2	1.0	"	20.0		101	75-125			
Benzene	20.4	0.50	"	20.0		102	75-125			
Toluene	19.3	0.50	"	20.0		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	8.47		"	8.00		106	83.5-119			
Surrogate: Dibromofluoromethane	9.10		"	8.00		114	81-136			
Surrogate: Toluene-d8	7.93		"	8.00		99.1	88.8-117			

Matrix Spike (2051016-MS1)

Source: T120782-01

Prepared: 05/10/12 Analyzed: 05/15/12

Chlorobenzene	21.2	1.0	ug/l	20.0	ND	106	75-125			
1,1-Dichloroethene	21.6	1.0	"	20.0	ND	108	75-125			
Trichloroethene	20.6	1.0	"	20.0	ND	103	75-125			
Benzene	21.4	0.50	"	20.0	ND	107	75-125			
Toluene	20.1	0.50	"	20.0	ND	100	75-125			
Surrogate: 4-Bromofluorobenzene	8.67		"	8.00		108	83.5-119			
Surrogate: Dibromofluoromethane	9.19		"	8.00		115	81-136			
Surrogate: Toluene-d8	7.88		"	8.00		98.5	88.8-117			

Matrix Spike Dup (2051016-MSD1)

Source: T120782-01

Prepared: 05/10/12 Analyzed: 05/15/12

Chlorobenzene	20.0	1.0	ug/l	20.0	ND	100	75-125	5.54	20	
1,1-Dichloroethene	21.4	1.0	"	20.0	ND	107	75-125	0.932	20	
Trichloroethene	18.6	1.0	"	20.0	ND	92.9	75-125	10.5	20	
Benzene	20.5	0.50	"	20.0	ND	102	75-125	4.35	20	
Toluene	18.2	0.50	"	20.0	ND	91.2	75-125	9.65	20	
Surrogate: 4-Bromofluorobenzene	8.65		"	8.00		108	83.5-119			
Surrogate: Dibromofluoromethane	9.35		"	8.00		117	81-136			
Surrogate: Toluene-d8	7.71		"	8.00		96.4	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051018 - EPA 5030 GCMS

Blank (2051018-BLK1)

Prepared: 05/10/12 Analyzed: 05/15/12

Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051018 - EPA 5030 GCMS

Blank (2051018-BLK1)

Prepared: 05/10/12 Analyzed: 05/15/12

p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
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	"							
Surrogate: 4-Bromofluorobenzene	47.8		"	40.0		120	81.2-123			
Surrogate: Dibromofluoromethane	58.0		"	40.0		145	95.7-135			S-GC
Surrogate: Toluene-d8	40.6		"	40.0		102	85.5-116			

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Wendy Hsiao, Project Manager

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Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051018 - EPA 5030 GCMS

LCS (2051018-BS1)

Prepared: 05/10/12 Analyzed: 05/16/12

Chlorobenzene	115	5.0	ug/kg	100		115	75-125			
1,1-Dichloroethene	111	5.0	"	100		111	75-125			
Trichloroethene	101	5.0	"	100		101	75-125			
Benzene	111	5.0	"	100		111	75-125			
Toluene	99.2	5.0	"	100		99.2	75-125			
Surrogate: 4-Bromofluorobenzene	44.4		"	40.0		111	81.2-123			
Surrogate: Dibromofluoromethane	56.4		"	40.0		141	95.7-135			S-GC
Surrogate: Toluene-d8	37.5		"	40.0		93.8	85.5-116			

LCS Dup (2051018-BSD1)

Prepared: 05/10/12 Analyzed: 05/16/12

Chlorobenzene	105	5.0	ug/kg	100		105	75-125	8.49	20	
1,1-Dichloroethene	99.7	5.0	"	100		99.7	75-125	11.0	20	
Trichloroethene	91.0	5.0	"	100		91.0	75-125	10.6	20	
Benzene	100	5.0	"	100		100	75-125	9.82	20	
Toluene	88.8	5.0	"	100		88.8	75-125	11.1	20	
Surrogate: 4-Bromofluorobenzene	44.4		"	40.0		111	81.2-123			
Surrogate: Dibromofluoromethane	49.0		"	40.0		122	95.7-135			
Surrogate: Toluene-d8	38.2		"	40.0		95.5	85.5-116			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Tristar
Project Number: 575-401-1
Project Manager: Frank Poss

Reported:
07/10/12 09:38

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).
- D-02 Hydrocarbon pattern present in the requested fuel quantitation range, but does not resemble the pattern of the requested fuel.
- 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

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: PSI
 Address: 4703 N DEWATER AVE. STE B OAKLAND CA 94601
 Phone: (510) 434-9200 Fax: (510) 434-7676
 Project Manager: FRANK DOSS

Date: 5/8/12 Page: 1 Of 1
 Project Name: TRISTAR
 Collector: STEPHEN RAMOS / FRANK DOSS Client Project #: 575-401-1
 Batch #: T120788 EDF #: T0600100131

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
B-1-10	5/8/12	10:22	SOL	TUBE		X						X		01		1
B-1-15		10:30				X						X		02		1
B-1-20		10:42				X						X		03		1
B-2-9		11:15				X						X		04		1
B-2-15		11:21				X						X		05		1
B-2-20		11:27				X						X		06		1
B-3-9		11:57				X						X		07		1
B-3-15		12:02				X						X		08		1
B-3-20		12:06				X						X		09		1
B-1-W	5/9/12	14:20	WATER	VOA		X						X		10		2
B-2-W		14:28				X						X		11		2
B-3-W		14:40				X						X		12		3
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>5/9/12 17:40</u> Received by: (signature) <u>[Signature]</u> Date / Time <u>5/10/12 19:20</u> Relinquished by: (signature) <u>GSO</u> Date / Time <u>5-10-12 / 9:20</u> Received by: (signature) <u>[Signature]</u> Date / Time <u>5-10-12 / 9:20</u> Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____															Total # of containers <u>18</u> Chain of Custody seals <u>Y/N/NA</u> Seals intact? <u>Y/N/NA</u> Received good condition/cold <u>1.4</u> Turn around time: <u>STO</u>	Notes

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

COC 112622

SAMPLE RECEIVING REVIEW SHEET

BATCH # T120788

Client Name: PSJ-Oakland

Project: Tristan # 575-401-1

Received by: Sunny Lounthorne

Date/Time Received: 5/10/12 9:20

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 1.6 °C +/- the CF (- 0.2°C) = 1.4 °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 KS 5/10/12

Comments:
