January 30, 2015

Mr. Keith Nowell
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

I, Larry David hereby authorize ERAS Environmental, Inc. to submit the Basics P-2 report dated for 106-110 Hegenberger Rd., Oakland in Oakland, California, dated August 27, 2014 to the Alameda County Health Care Services Agency.

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

Signature: 

Printed Name: Larry David

Mr. Larry David
626.836.2908
jld@jldawoffice.com

LIMITED PHASE II ENVIRONMENTAL SITE SAMPLING REPORT

106-110 Hegenberger Road
Oakland
California

FOR

Balaji Enterprises, LLC
66 Airport Access Road
Oakland, CA 94603

August 27, 2014
14-ENV3860

655 12TH STREET, #126 • OAKLAND, CA • 94607 • TEL / FAX 510-834-9099 / 9098

August 27, 2014
14-ENV3860

Balaji Enterprises, LLC
66 Airport Access Road
Oakland, CA 94603

Attention: Mr. Dhruv Patel

Subject: Limited Phase II Environmental Site Sampling Report
106-110 Hegenberger Road
Oakland, California 94621

Dear Mr. Patel:

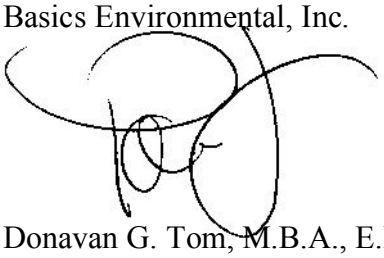
Basics Environmental, Inc. (Basics) is pleased to present the results of a Limited Phase II Environmental Site Sampling Report for the site located at 106-110 Hegenberger Road in Oakland, California. This Limited Phase II Environmental Site Sampling Report is based on the information compiled by Basics' subconsultant Ms. Lita Freeman, Professional Geologist #7368 with Environmental Risk Assessors.

Based on four shallow soil and five soil gas samples collected, residual impacts remain present in the area of the former clarifier at concentrations in the soil that would present a potential risk to construction workers in direct contact with the impacted soil and at concentrations in soil gas that would present a potential excess cancer risk due to the migration of vapors into buildings.

Should you have any questions regarding this report, please contact the undersigned.

Sincerely,

Basics Environmental, Inc.



Donavan G. Tom, M.B.A., E.P.
Principal Consultant

PROFESSIONAL CERTIFICATION

LIMITED PHASE II ENVIRONMENTAL SITE SAMPLING REPORT
106-110 Hegenberger Road
Oakland, California
For
Balaji Enterprises, LLC
14-ENV3860
August 27, 2014

This report has been prepared by the staff of Basics Environmental, Inc. (Basics) under the professional supervision of an "Environmental Professional" as defined by the U.S. Environmental Protection Agency's Final Rule. The findings, interpretations of data, recommendations, specifications or professional opinions are presented within the limits prescribed by available information at the time the report was prepared, in accordance with generally accepted professional environmental practice and within the requirements by the Client. There is no other warranty, either expressed or implied.

The data and findings of this report are based on the data and information obtained from the agreed upon scope of work between Basics and the Client. Because contamination is not necessarily evenly distributed across the property's soils and ground water, it can easily remain undetected and geology may control the subsurface distribution of contamination. Additional scope of services including geologic interpretation (at greater cost) may or may not disclose information which may significantly modify the findings of this report. We accept no liability on completeness or accuracy of the information presented and or provided to us, or any conclusions and decisions which may be made by the Client or others regarding the subject site.

This report was prepared solely for the benefit of Basic's Client. Basics consents to the release of this report to third parties involved in the evaluation of the property for which the report was prepared, including without limitation, lenders, title companies, public institutions, attorneys, and other consultants. However, any use of or reliance upon this report shall be solely at the risk of such party and without legal recourse against Basics, or its subcontractors, affiliates, or their respective employees, officers, or directors, regardless of whether the action in which recovery of damage is sought is based upon contract, tort (including the sole, concurrent or other negligence and strict liability of Basics), statute or otherwise. This report shall not be used or relied upon by a party that does not agree to be bound by the above statements.

Donavan G. Tom, E.P.
Principal Consultant

Lita D. Freeman, P.G. #7368
Associate Consultant (Expires 12/31/14)

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1. EXECUTIVE SUMMARY

Environmental Risk Assessors (ERA) is pleased to present this Limited Phase II Environmental Site Assessment (ESA) Report (the "Report") for the 1.17-acre property located at 106-110 Hegenberger Road, Oakland, Alameda County, California (the "Site"; Figure 1). The Site is comprised of one parcel which is designated by the Alameda County Assessor as Assessor's Parcel Number (APN) 44-5020-5-42 (Figure 2).

1.1 Background

A gasoline service station with a carwash was formerly located on the Site. Three 10,000-gallon gasoline underground storage tanks (USTs) and one 2-stage clarifier were removed from the Site in the past. Soil samples were collected from the excavation sidewalls of the USTs and clarifier for chemical analysis during the removal operations. Groundwater was reportedly not encountered during removal of the USTs and clarifier. During subsequent investigations, groundwater was reported at depths of about 5 feet below ground surface (bgs) in the area of the former USTs and about 0.5 feet bgs at the former clarifier. Groundwater samples were collected for chemical analysis from monitoring wells installed on the Site. In January 1996, the Alameda County Environmental Health Department (ACEHD) indicated that the Site qualified as a "low risk groundwater case" except for the former clarifier sump area. Residual concentrations of total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g), TPH quantified as diesel (TPH-d), total oil and grease (O&G), and select heavy metals were noted by ACEHD as remaining on the Site.

BSK and Associates (BSK) conducted a subsurface investigation and performed a human health risk assessment in 1998. BSK concluded that residual impacts within a radius of less than 10 feet of sampling point V-1 (located adjacent to the east of the former clarifier) would present a potential excess cancer risk due to the migration of vapors into buildings constructed over this area. BSK recommended that the ACEHD grant case closure with a deed restriction that would prohibit construction of buildings within a 10 foot radius of sampling point V-1.

BSK prepared a Risk Management Plan (RMP) in 1999 that presented procedures to protect future on-site construction workers. According to the RMP, buildings should not be placed in the area south of the former clarifier without remediation of the petroleum hydrocarbons-impacted soil or use of construction techniques to prevent the migration of vapors through the floor slab into on-site buildings.

The ACEHD issued a case closure letter on February 8, 2001, to J.L. David for the Diablo Cellular property (the Site). The letter confirms the completion of the investigation and cleanup of the reported release at the Site but notes the presence of residual petroleum hydrocarbons remaining in soil as follows:

- TPH-g at concentrations of 2,100 milligrams per kilograms (mg/kg);
- TPH-d at concentrations of 110 mg/kg; and
- O&G at concentrations of 13,000 mg/kg.

1.2 Investigation

The objective of this Limited Phase II ESA was to evaluate current subsurface conditions in the former clarifier area. To meet this objective, soil gas and soil samples were collected for analysis with comparison of the analytical results to established screening levels. The investigation consisted of the following:

- Collecting five soil gas samples from sampling locations, designated SB-1 through SB-5, in the area of former sampling points V-1 through V-5, respectively;
- Submitting the soil gas samples for volatile organic compounds (VOCs) analysis;

- Collecting four soil samples from soil borings, designated SB-6 through SB-9, in the area of former sampling points B-101, HA-4-5, HA-7-5, and at the southern end of sampling area, respectively;
- Submitting the soil samples for petroleum hydrocarbons (gasoline, diesel, and oil and grease), metals (cadmium, chromium, lead, nickel, and zinc), and VOCs analysis.

1.3 Findings

Various VOCs were detected in soil gas at concentrations at or above their respective laboratory reporting limit. Detected VOCs included benzene, toluene, ethylbenzene, xylenes, and tetrachloroethene (PCE). Comparison of the VOC concentrations to the Environmental Screening Levels (ESLs) for soil gas for evaluation of potential vapor intrusion as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Table E-2, December 2013) indicate that detected benzene concentrations in soil gas samples SB-1 and SB-2 were above its ESL. The laboratory reporting limits for benzene in one sample (SB-5), PCE in two samples (SB-1 and SB-5), and ethylbenzene in one sample (SB-5) were above their respective ESL, therefore, the actual concentrations of these compounds in these sample may be below or above their ESL.

Petroleum hydrocarbons, various VOCs, and some metals were detected in soil samples. The results were compared to applicable ESLs as established by the SFBRWQCB for shallow soil at commercial/industrial land use where groundwater is a current or potential drinking water resource (Table A-2, December 2013), groundwater is not a current or potential drinking water resource (Table B-2, December 2013), and for workers in direct contact with impacted soil (Table K-2, December 2013). The soil data revealed the following:

- Petroleum hydrocarbons were detected in each of the soil samples. The concentrations of TPH-g, TPH-d, and O&G in soil samples SB-6-5 and SB-7-5 were above their respective ESL for commercial/industrial land use (Tables A-2 and B-2) but below the direct contact ESL (Table K-2).
- The VOC benzene in soil samples SB-6-5 and SB-7-5, naphthalene in soil samples SB-6-5 and SB-7-5, and ethylbenzene in soil sample SB-6-5, were reported at concentrations above their respective ESL for commercial/industrial land use (Tables A-2 and B-2). Benzene and naphthalene in soil sample SB-6-5 were also reported at concentrations above their respective ESL for direct contact (Table K-2).
- Chromium, lead, nickel, and zinc were detected in each of the soil samples; the concentrations were below their respective ESL for commercial/industrial land use (Tables A-2 and B-2) and direct contact (Table K-2).

1.4 Conclusions

The results of this Limited Phase II ESA indicate that residual impacts are still present in the former clarifier area at concentrations in soil gas that would present a potential excess cancer risk due to the migration of vapors into buildings and at concentrations in soil that would present a potential risk to construction workers in direct contact with the impacted soil. The highest VOC concentrations detected during this Limited Phase II ESA were reported at sampling location SB-1; this corresponds to data collected during past investigations.

1.5 Recommendations

Based on the findings of this Limited Phase II ESA, ERA concurs with BSK's conclusion that future buildings should not be placed above the former clarifier area unless remedial actions are taken to reduce the residual concentrations of VOCs (specifically benzene) and petroleum hydrocarbons.

ERA recommends review and, if appropriate, update of BSK's RMP using data collected during this Limited Phase II ESA. The RMP should be implemented during future construction activities at the Site.

2. INTRODUCTION

ERA is pleased to present this Limited Phase II ESA Report for the approximately 1.17-acre property located at 106 – 110 Hegenberger Road, Oakland, Alameda County, California. The Site consists of Alameda County Assessor's Parcel Number (APN) 44-5020-5-42.

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

2.1 Site Description

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

Table 1. General Site Information

Project Name: Hegenberger Road Property	**Current Development:** Commercial building
Address: 106 – 110 Hegenberger Road, Oakland	**APN:** 44-5020-5-42
Property Size: 1.17 acres	**Occupant(s):** Vacant property
Location: Northeast of the Hegenberger Road and Pardee Drive intersection	

2.2 Background

A gasoline service station with a carwash was formerly located on the Site. Three 10,000-gallon gasoline USTs and one 2-stage clarifier were removed from the Site in the past. Soil samples were collected from the excavation sidewalls of the USTs and clarifier for chemical analysis.

Groundwater was reportedly not encountered during removal of the USTs and clarifier (maximum excavation depth of 10 feet bgs). During subsequent investigations, groundwater was reported at depths of about 5 feet bgs in the area of the former USTs and about 0.5 feet bgs at the former clarifier.

Groundwater samples were collected for chemical analysis from monitoring wells installed on the Site. In January 1996, the ACEHD indicated that the Site qualified as a "low risk groundwater case" except for the former clarifier sump area. Residual concentrations of TPH-g, TPH-d, O&G, and select heavy metals were noted by ACEHD as remaining in on-site soil.

BSK conducted a subsurface investigation and performed a human health risk assessment in 1998. BSK concluded that the area which would present a potential excess cancer risk due to the migration of vapors into buildings appeared to be limited to a small area with a radius of less than 10 feet of sampling point V-1 (located adjacent to the east of the former clarifier). BSK recommended that the ACEHD grant case closure with a deed restriction that would prohibit construction of buildings within a 10-foot radius of sampling point V-1 or require special construction techniques which would prevent vapor intrusion into future on-site buildings.

The RMP prepared by BSK in 1999 presented procedures to protect construction workers should construction activities occur at the Site in the future. The RMP notes that a health and safety plan should be prepared and submitted to the ACEHD for review prior to future construction activities. The RMP indicated that buildings should not be placed in the area south of the former clarifier without remediation of the soil that has been impacted by petroleum hydrocarbons or use of construction techniques which would prevent the migration of petroleum hydrocarbon vapors through the floor slab and into the buildings.

2.3 Objectives and Scope of Work

The objective of this Limited Phase II ESA was to evaluate current subsurface conditions in the area of the former clarifier. To meet this objective, soil gas and soil samples were collected from the Site for chemical analysis and comparison of the analytical results to established screening levels.

This Limited Phase II ESA conducted by ERA included the following services:

- advancing five borings to a depth of about 3 feet bgs and collecting soil gas samples;
- advancing four borings to a depth of about 5 feet bgs and collecting soil samples;
- submitting the samples to the project laboratory for analysis; and
- preparing this Report presenting our findings, evaluation, conclusions, and recommendations, as warranted.

2.4 Limitations and Exceptions

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

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

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

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

2.5 Special Terms and Conditions

The scope of work for this Limited Phase II ESA was presented in ERA's proposal dated July 21, 2014. The scope of work for this assessment did not include tasks not specifically noted in the proposal.

2.6 User Reliance

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

2.7 Qualifications

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

- Ms. Lita Freeman, California Professional Geologist and California Asbestos Consultant, has over 24 years of experience providing site assessment services. This has included evaluating potential property impacts from historical on- and off-site operations, conducting subsurface investigations, and implementing site remediation plans. Ms. Freeman works with property owners, attorneys, and regulators to mitigate and resolve environmental issues.

3. VAPOR ENCROACHMENT

Vapor encroachment occurs when vapors from volatile chemicals in polluted soil or groundwater are present in sufficient concentrations and under certain conditions such that volatile chemical vapors may migrate upwards into the indoor air of overlying buildings. Vapor encroachment chemicals of concern (COCs) include VOCs. Once contaminant vapors enter a structure, they may accumulate and potentially pose health hazards for building occupants.

To ensure that vapor encroachment is appropriately considered when performing an environmental site assessment, the American Society for Testing and Materials International (ASTM) released its Vapor Encroachment Standard (ASTM E2600-10) in 2010. In accordance with the new standard, two conditions are evaluated: Vapor Encroachment Condition (VEC) and potential Vapor Encroachment Condition (pVEC). A VEC results from “the presence or likely presence of any chemicals of concern in the indoor air environment of existing or planned structures on a property caused by the release of vapor from contaminated soil or groundwater on the property or within close proximity to the property, at a concentration that presents or may present an unacceptable health risk to occupants." A pVEC is “a condition that exists when screening indicates the possibility of a VEC, but where there is insufficient data to ascertain the presence or likely presence of COCs in the indoor air environment.” “Chemicals of Concern” are defined by the ASTM to be “chemicals in the subsurface environment that are known or reasonably expected to be present, that can potentially migrate as a vapor into an existing or planned structure on a property, and that are generally recognized as having the potential for an adverse impact on human health.”

Previous investigations have identified vapor encroachment COCs (as identified in ASTM E 2600) into the Site’s subsurface from past site operations. Therefore, soil gas sampling was conducted as part of this Limited Phase II ESA.

4. FIELD INVESTIGATION

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

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

4.1 Pre-Field Activities

Prior to conducting field activities associated with the proposed assessment, the pre-field tasks described below were completed.

4.1.1 Health and Safety

ERA prepared a site-specific *Health and Safety Plan* for the scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency

Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by ERA personnel and subcontractors performing work at the Site.

4.1.2 Permitting

ERA obtained a soil boring permit from the Alameda County Public Works Agency (ACPWA) prior to commencing intrusive field activities. ERA coordinated field activities with the ACPWA and scheduled an ACPWA inspector to document compliance with permit requirements. A copy of the approved permit is presented in Appendix B.

4.2 Field Activities

4.2.1 Utility Clearance

Prior to conducting subsurface work at the Site, the soil boring locations were cleared for underground utilities by notifying Underground Services Alert North (USA North) at least 48 hours prior to intrusive field activities.

4.2.2 Drilling and Sampling

On August 11, 2014, ERA personnel provided oversight of Environmental Control Associates, a California licensed driller, during advancement of the borings using a Geoprobe direct-push drilling rig. A total of nine borings were advanced at on-site locations (Figure 3); the boring locations were selected based on available historical information and site observations. Table 2 presents a summary of the sampling and analysis program for this Limited Phase II ESA.

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

The borings were located on the eastern side of the former clarifier in the area of highest historical contaminant concentrations in soil gas (sampling point V-1) and soil (sampling points B-101, HA-4-5, and HA-7-5). Soil gas samples were collected from five borings at a depth of about 3 feet bgs and soil samples were collected from four borings at the 4.5 to 5.0 feet bgs depth interval. The boring identifications are as follows:

- Boring SB-1: soil gas sample at location of former sampling point V-1
- Boring SB-2: soil gas sample at location of former sampling point V-2
- Boring SB-3: soil gas sample at location of former sampling point V-3
- Boring SB-4: soil gas sample at location of former sampling point V-4
- Boring SB-5: soil gas sample at location of former sampling point V-5
- Boring SB-6: soil sample at location of former sampling point B-101
- Boring SB-7: soil sample at location of former sampling point HA-4-5
- Boring SB-8: soil sample at location of former sampling point HA-7-5
- Boring SB-9: soil sample at southern end of sampling area

Soil sampling was conducted during drilling using new acetate sleeves. Soil samples were screened in the field with a photoionization detector (PID) and observed for evidence of chemical staining. The soil screening procedures involved measuring approximately 30 grams from a relatively undisturbed soil sample and placing this sample in a sealed zip-lock bag. The container was warmed in the sun for approximately 20 minutes, then the head space within the bag was tested for total organic vapor, measured in parts per million volume (ppmv). Elevated (above background) PID measurements and evidence of impacted soil (i.e. staining, odors, sheen, etc.) were not noted during sampling. The highest PID reading (145 ppmv) was in sample SB-6 at 3 feet. Elevated readings (above the background level of 0.0 ppmv) were also recorded in sample SB-6 at 4 feet (58.2 ppmv) and sample SB-7 at 5 feet (101 ppmv). The PID results were recorded on the field boring logs which are included in Appendix C.

4.2.2.1 Soil Gas Sampling

A truck-mounted direct-push unit was used to drive a steel probe equipped with a hardened, reverse-threaded steel driving point into the subsurface to a depth of about 3 feet bgs to collect a soil gas sample. Inert nylon tubing with a screened sampling port at the tip was placed through the center of the rod and the rod was withdrawn; the tubing was sealed by filling the annular space around the tubing with clean fill sand in the lower 1 foot of the borehole (two 6-inch sand layers with a diffuser between the sand layers). A 6-inch thick layer of unhydrated granulated bentonite was placed above the sand with hydrated granulated bentonite placed above the unhydrated bentonite to the pavement surface to seal the borehole.

Each soil gas sample was collected in an evacuated 1-liter stainless steel Summa canisters equipped with regulators to control sample collection flow rate. At each sampling location, the tubing was connected to the vacuum gauge which was then connected to the Summa canister; the valve on the canister was opened, thereby placing a vacuum on the sampling tip and drawing the soil gas sample into the canister. The tubing was purged for approximately 2 minutes at each location prior to sampling. The serial numbers of the vacuum gauge and Summa canister used at each sampling location were recorded, along with the initial and final vacuum readings.

A leak test was performed using a tracer gas to evaluate possible ambient air intrusion into the Summa canisters during the soil gas sampling. The tracer gas that was used during this project was 1,1-difluoroethane (1,1-DFA), which is the propellant found in duster spray. The leak test consisted of placing a cloth soaked in 1,1-DFA into a sealed plastic bag at each soil gas sample location. The plastic bag was placed adjacent to the sampling train and opened after the valve on the Summa canister was opened to allow collection of the soil gas sample into the canister. After an internal vacuum of approximately -5 inches mercury (Hg) was reached (from an initial vacuum of approximately -30 inches Hg), the Summa canister's valve was closed and the canister capped, labeled, and transported to the project laboratory under chain of custody documentation.

Pertinent field sampling data for the soil gas sampling are presented in Table 3.

4.2.2.2 Soil Sampling

A truck-mounted direct-push unit was used to drive a steel probe lined with acetate tubes into the ground to the desired depth. The soil samples were retained in the acetate tubes, capped with Teflon squares and plastic end caps, and sealed in zip-lock bags. Soil samples were labeled with the boring identification number and the bottom depth (5 feet bgs) of the sampling interval. The soil samples were placed on ice and transported under chain-of-custody protocols to the project laboratory.

4.2.3 Borehole Abandonment and Investigation-Derived Waste Handling

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

Investigation-derived waste (IDW), which was limited to soil cuttings, produced during sampling activities were containerized in one 5-gallon container and left on the Site pending receipt of analytical results. Appropriate off-site disposal options will be presented to the client after evaluation of the analytical results.

5. ANALYSIS, RESULTS, AND EVALUATION

The soil gas and soil samples were submitted to McCampbell Analytical Laboratories of Pittsburg, California, a laboratory certified by the State of California to perform the requested analyses. The analytical methods,

results, and evaluation of this Limited Phase II ESA are presented below. Copies of the laboratory analytical report and chain-of-custody documentation are presented in Appendix D.

5.1 Soil Gas Analysis and Results

The five soil gas samples were analyzed for VOCs using U.S. Environmental Protection Agency (U.S. EPA) Method TO-15.

Various VOCs were detected in soil gas at concentrations at or above their respective laboratory reporting limit. Detected VOCs included benzene, toluene, ethylbenzene, xylenes, and PCE.

The leak detection compound 1,1-DFA was detected in three (SB-1, SB-2, and SB-4) of the five soil gas samples.

The analytical results for the soil gas samples are presented in Table 3.

5.2 Soil Analysis and Results

One soil sample was collected from each boring and analyzed as follows:

- TPH-g and TPH-d using U.S. EPA Method 8015B;
- O&G using U.S. EPA Method SM5520C/F ;
- VOCs, including benzene, toluene, ethylbenzene, and xylenes, using U.S. EPA Method 8260B; and
- Leaking Underground Fuel Tank (LUFT) 5 metals, cadmium, chromium, lead, nickel, and zinc, using U.S. EPA Method 6000/7000 Series.

Petroleum hydrocarbons, VOCs, and metals were detected in one or more of the soil samples, as discussed below. The analytical results for the soil samples are presented in Table 4.

- Petroleum hydrocarbons (TPH-g, TPH-d, and O&G) were detected in each of the soil samples at concentrations up to 1,200 mg/kg TPH-g, 400 mg/kg TPH-d, and 910 O&G.
- Various VOCs, including benzene and naphthalene, were detected in soil samples SB-6-5, SB-7-5, and SB-8-5. Concentrations of benzene up to 8.6 mg/kg and naphthalene up to 19 mg/kg were reported in these samples. VOCs were not detected in sample SB-9-5 at concentrations at or above their laboratory reporting limits.
- Cadmium was not detected in the soil samples at concentrations at or above the laboratory reporting limits. Chromium, lead, nickel, and zinc were detected in each of the soil samples.

5.3 EVALUATION

The concentrations of compounds of concern detected in soil gas and soil samples were compared to Environmental Screening Levels (ESLs) as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Table E-2, December 2013, and Shallow Soil Screening Levels [<3 m bgs] Commercial/Industrial Land Use [groundwater is a current or potential drinking water resource], Table A-2, December 2013) for commercial/industrial land use shallow soil (see Tables 3 and 4).

The ESLs for shallow soil where groundwater is not a current or potential drinking water resource (Shallow Soil Screening Levels [<3 m bgs] Commercial/Industrial Land Use [groundwater is a current or potential drinking water resource], Table B-2, December 2013) for commercial/industrial land use shallow soil were also used for evaluation.

In addition, the soil sample results were compared to ESLs for protection of construction workers in direct contact with impacted soil as established by the SFBRWQCB for commercial/ industrial land use (SFBRWQCB, Direct Exposure Soil Screening Levels, Commercial/Industrial Worker Exposure Scenario, Table K-2, December 2013).

5.3.1 Soil Gas Results Evaluation

Comparison of the VOC concentrations to the ESLs for soil gas (SFBRWQCB, Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Table E-2, December 2013) indicate that detected benzene concentrations in soil gas samples SB-1 and SB-2 were above its ESL of 420 micrograms per cubic meter. The remaining VOC concentrations detected in the soil gas samples were less than their respective laboratory reporting limit and/or ESL; however, the laboratory reporting limits for some VOCs (benzene in SB-5, PCE in SB-1 and SB-5, and ethylbenzene in SB-5) were above their respective ESL.

ESLs have not been established for all of the detected VOCs, including heptane and hexane.

The presence of 1,1-DFA indicates leakage of ambient air into the Summa canister during the sampling event; results for samples with detection of 1,1-DFA are considered an underestimate of actual VOC concentrations in the soil gas samples.

5.3.2 Soil Results Evaluation

The soil sample results were compared to ESLs for soil as established by the SFBRWQCB for commercial/ industrial land use (SFBRWQCB, Shallow Soil Screening Levels [<3m bgs] Commercial/ Industrial Land Use [groundwater is a current or potential drinking water resource], Table A-2, December 2013). The soil data revealed the following:

- The concentrations of TPH-g, TPH-d, and O&G in soil samples SB-6-5 and SB-7-5 were above their respective ESL of 500 mg/kg, 110 mg/kg, and 500 mg/kg for commercial/industrial land use.
- The VOCs benzene and naphthalene were detected in soil samples SB-6-5 and SB-7-5 at concentrations above their respective ESL of 0.044 mg/kg and 1.2 mg/kg for commercial/industrial land use. In addition, ethylbenzene was detected in soil sample SB-6-5 at a concentration above its ESL of 3.3 mg/kg for commercial/industrial land use.
- The concentrations of chromium, lead, nickel, and zinc detected in each of the soil samples were below their respective ESL of 2,500 mg/kg, 320 mg/kg, 150 mg/kg, and 600 mg/kg for commercial/industrial land use.

The soil sample results were also compared to ESLs for soil as established by the SFBRWQCB for commercial/industrial land use where groundwater is *not* a current or potential drinking water resource (SFBRWQCB, Shallow Soil Screening Levels [<3m bgs] Commercial/ Industrial Land Use [groundwater is not a current or potential drinking water resource], Table B-2, December 2013). These screening levels are less conservative that those presented in Table A-2; however, using these screening levels did not change the results of the evaluation.

Comparison of the soil sample results to ESLs for protection of construction workers in direct contact with impacted soil as established by the SFBRWQCB for commercial/ industrial land use (SFBRWQCB, Direct Exposure Soil Screening Levels, Commercial/Industrial Worker Exposure Scenario, Table K-2, December 2013) indicated that benzene and naphthalene concentrations in soil sample SB-6-5 were above their respective ESLs of 3.7 mg/kg and15 mg/kg.

6. CONCLUSIONS

The results of this Limited Phase II ESA indicate that residual impacts are still present in the area of the former clarifier at concentrations in soil gas that would present a potential excess cancer risk due to the migration of vapors into buildings and at concentrations in soil that would present a potential risk to construction workers in direct contact with the impacted soil. The highest VOC concentrations detected during this Limited Phase II ESA were reported at sampling location SB-1; this corresponds to data collected during past investigations.

7. RECOMMENDATIONS

Based on the findings of this limited Phase II ESA, ERA concurs with BSK's conclusion that future buildings should not be placed above the area of the former clarifier unless remedial actions are taken to reduce the residual concentrations of VOCs (specifically benzene) and petroleum hydrocarbons.

The RMP prepared by BSK presents procedures to protect construction workers from inhalation of vapors and/or contact with impacted soil in the area of the former clarifier should construction activities occur at the Site in the future. ERA recommends review and, if appropriate, update of the RMP using data collected during this Limited Phase II ESA. The RMP should be implemented during site work which would involve inhalation of vapors and/or direct contact with impacted soil in the area of the former clarifier.

8. REFERENCES

American Society for Testing and Materials (ASTM), *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, June 2010.

California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels, Table E-2: Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion (volatile chemicals only),* Interim Final, December 2013.

California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels, Table A-2: Shallow Soil Screening Levels (<3m bgs) Commercial/Industrial Land Use (Groundwater is a Current or Potential Drinking Water Resource),* Interim Final, December 2013.

California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels, Table B-2: Shallow Soil Screening Levels (<3m bgs) Commercial/Industrial Land Use (Groundwater is not a Current or Potential Drinking Water Resource),* Interim Final, December 2013.

California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels, Table K-2: Direct Exposure Soil Screening Levels, Commercial/Industrial Worker Exposure Scenario,* Interim Final, December 2013.

SIGNATURES OF ENVIRONMENTAL PROFESSIONAL

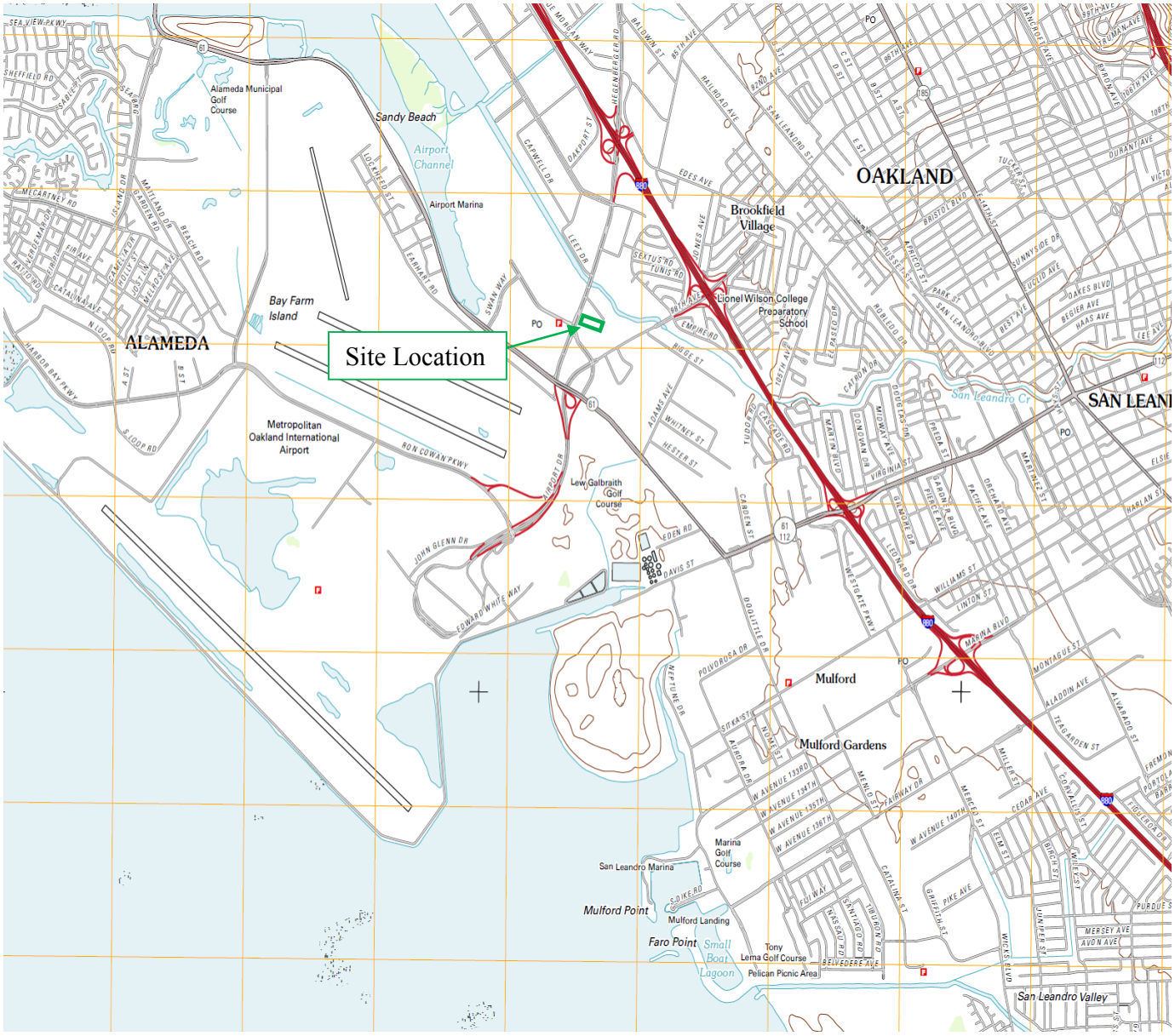
Report Prepared By:

August 26, 2014

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

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

FIGURES



Legend

— Site (boundaries approximate)

North

ERA soil-water-vapor	**Site Location Map**	PN: 01-2014-500-001
		Date: August 25, 2014
	LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT	EP: Lita Freeman
	106 - 110 Hegenberger Road, Oakland, California	**Figure 1**

Approximate Property Boundary

Former Clarifier Sump

Former Car Wash

North

ERA soil-water-vapor	**Site Plan**	PN: 01-2014-500-001
		Date: August 21, 2014
	LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT	EP: Lita Freeman
	106 - 110 Hegenberger Road, Oakland, California	**Figure 2**

- - - Approximate Property Boundary

Former Clarifier Sump

Former Car Wash

Former Groundwater Monitoring Well Location

Soil Gas Sampling Location

Soil Sampling Location
(all locations are approximate)

ERA soil-water-vapor	**Former Clarifier Area and Sample Locations**	PN: 01-2014-500-001
		Date: August 25, 2014
	LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT	EP: Lita Freeman
	106 - 110 Hegenberger Road, Oakland, California	**Figure 3**

TABLES

Table 2
Sampling and Analysis Summary
Hegenberger Road Property
106 - 110 Hegenberger Road
Oakland, California

Location	Sample ID	Sample Depth (feet bgs)[1]	Matrix	VOCs[2]	TPH-g, TPH-d[3]	Oil & Grease[4]	LUFT 5 Metals[5]
Adjacent to Former Sampling Point V-1	SB-1	3.0	Soil Gas	X	--	--	--
Adjacent to Former Sampling Point V-2	SB-2	3.0	Soil Gas	X	--	--	--
Adjacent to Former Sampling Point V-3	SB-3	3.0	Soil Gas	X	--	--	--
Adjacent to Former Sampling Point V-4	SB-4	3.0	Soil Gas	X	--	--	--
Adjacent to Former Sampling Point V-5	SB-5	3.0	Soil Gas	X	--	--	--
Adjacent to Former Sampling Point B-101	SB-6-5	4.5 - 5.0	Soil	X	--	--	--
Adjacent to Former Sampling Point HA-4-5	SB-7-5	4.5 - 5.0	Soil	X	X	X	X
Adjacent to Former Sampling Point HA-7-5	SB-8-5	4.5 - 5.0	Soil	X	X	X	X
Southern End of Sampling Area	SB-9-5	4.5 - 5.0	Soil	X	X	X	X

Notes:

1. bgs = below ground surface
2. VOCs = Volatile Organic Compound: soil vapor samples were analyzed using U.S. EPA Method TO-15, soil samples were analyzed using U.S. EPA Method 8260B.
3. TPH-g, TPH-d = Total Petroleum Hydrocarbons (TPH) quantified as gasoline, TPH quantified as diesel were analyzed using U.S. EPA Method 8015B.
4. O&G = Oil and Grease was analyzed using U.S. EPA Method 5520C/F.
5. LUFT 5 Metals = Leaking Underground Fuel Tank 5 Metals (cadmium, chromium, lead, nickel, and zinc) were analyzed using U.S. EPA Method 6010B.

Table 3
Soil Gas Samples Analytical Summary
Hegenberger Road Property
106 - 110 Hegenberger Road
Oakland, California

Sample ID	Canister Serial Number	Vacuum Gauge Serial Number	Start Time (hours)	End Time (hours)	Beginning Vacuum Reading (in. Hg)	Final Vacuum Reading (in. Hg)	1,1-DFA	Acetone	Benzene	1,3-Butadiene	Carbon Disulfide	Chloromethane	Cyclohexane	Heptane	Hexane	2-Hexanone	MIBK	PCE	Toluene	EB	4-Ethyltoluene	Xylenes	1,2,4-TMB	1,3,5-TMB
ESL for Evaluation of Potential Vapor Intrusion							-	$1.4x10^{8}$	420	NE	NE	390,000	NE	NE	NE	NE	NE	2,100	1,300,000	4,900	NE	440,000	NE	NE
SB-1	CAN6309-789	MAN316-725	1425	1515	-30	-4.5	**28,000**	$<6.7x10^{4}$	**50,000**	-	<3,300	<3,300	-	-	-	<3,300	<3,300	<3,300	**5,200**	<3,300	-	<3,300	<3,300	<3,300
SB-2	CAN6311-791	MAN316-689	1450	1500	-29.5	-3	**38**	<60	**3,200**	<1.1	**25**	<1.0	**6,900**	**140**	**1,300**	<2.1	**45**	**18**	**25**	**47**	<2.5	**27**	<2.5	<2.5
SB-3	CAN5804-735	MAN316-682	1514	1535	-28	-3	<110	**330**	**120**	**42**	**29**	<4.2	**490**	**270**	**400**	**12**	<8.4	<14	**21**	**18**	<10	<26	<10	<10
SB-4	CAN6169-755	MAN316-676	1530	1535	-30	-3	**430**	**83**	**25**	**11**	**8.5**	**1.8**	**28**	<21	**62**	<2.1	**2.6**	<3.4	**75**	**6.6**	**2.6**	**28**	**8.8**	**2.8**
SB-5	CAN5808-739	MAN316-727	1355	1410	-30	-4	<10,000	$<2.0x10^{5}$	<10,000	-	<10,000	<10,000	-	-	-	<10,000	<10,000	<10,000	<10,000	<10,000	-	-	<10,000	<10,000

Volatile Organic Compound (VOCs): soil gas samples were analyzed using U.S. EPA Method TO-15
$\mu g/m^3$ = micrograms per cubic meter
Vacuum reading in inches mercury (Hg)
NE = Not Established
NA = Not Available
MIBK = 4-Methyl-2-pentanone
PCE = Tetrachloroethene
TCE = Trichloroethene
EB = Ethylbenzene
Xylenes = Total xylenes
1,2,4-TMB = 1,2,4- Trimethylbenzene
1,3,5-TMB = 1,3,5- Trimethylbenzene

ESL = Environmental Screening Levels for soil gas and commercial/industrial land use as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion (volatile chemicals only), Table E-2, December 2013).

Bold = Compound detected
Bold = Compound detected above ESL
Bold = Compound not detected above laboratory reporting limit; however, laboratory reporting limit is above the ESL.

Table 4
Soil Samples Analytical Summary
Hegenberger Road Property
106 - 110 Hegenberger Road
Oakland, California

Sample ID	Sample Depth (feet bgs)[1]	Former Sampling Point	Petroleum Hydrocarbons[2] (Units: mg/kg)			LUFT 5 Metals[3] (Units: mg/kg)					VOCs[4] (Units: mg/kg)							
Analytes			TPH-g	TPH-d	O&G	Cadmium	Chromium	Lead	Nickel	Zinc	Benzene	n-Butyl Benzene	sec-Butyl Benzene	Ethylbenzene	Isopropyl-benzene	Naphthalene	n-Propyl benzene	Xylenes, total
ESL for Shallow Soil (GW is DWS)[5]			500	110	500	12	2,500	320	150	600	0.044	NE	NE	3.3	NE	1.2	NE	2.3
ESL for Shallow Soil (GW is not DWS)[6]			500	110	500	12	2,500	320	150	600	1.2	NE	NE	4.7	NE	4.8	NE	11
ESL for Worker Protection[7]			4,000	1,100	100,000	1,000	NE	320	19,000	310,000	3.7	NE	NE	24	NE	15	NE	2,600
SB-6-5	4.5 - 5.0	B-101	**1,200**	**400**	**910**	<0.25	**56**	**64**	**53**	**76**	**8.6**	**6.8**	**2.5**	**7.5**	**8.0**	**19.0**	**26**	**1.2**
SB-7-5	4.5 - 5.0	HA-4-5	**1,200**	**180**	**530**	<0.25	**110**	**120**	**84**	**95**	**3.5**	**3**	**1.1**	**2.6**	**3.0**	**7.7**	**10**	<1.0
SB-8-5	4.5 - 5.0	HA-7-5	**40**	**8.6**	**160**	<0.25	**88**	**190**	**88**	**100**	<0.05	<0.05	<0.05	<0.05	**0.21**	<0.05	**0.6**	<0.05
SB-9-5	4.5 - 5.0	NA	**1.5**	**6.2**	**53**	<0.25	**89**	**30**	**82**	**65**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:

1. bgs = below ground surface

2. Petroleum Hydrocarbons = TPH-g, TPH-d, O&G = Total Petroleum Hydrocarbons (TPH) quantified as gasoline and TPH quantified as diesel were analyzed using U.S. EPA Method 8015B, and Oil and Grease were analyzed using U.S. EPA Method SM5520C/F.

3. LUFT 5 Metals = Leaking Underground Fuel Tank 5 Metals (cadmium, chromium, lead, nickel, and zinc) were analyzed using U.S. EPA Method 6010B.

4. VOCs = Volatile Organic Compound were analyzed using U.S. EPA Method 8260B.

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

6. ESL for Shallow Soil (GW is not DWS) = Environmental Screening Levels for shallow soil as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Shallow Soil Screening Levels (<3 m bgs) Commercial/Industrial Land Use (groundwater is not a current or potential drinking water resource), Table B-2, December 2013).

7. ESL for Worker Protection = Environmental Screening Levels for worker protection as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Direct Exposure Soil Screening Levels, Commercial/Industrial Worker Exposure Scenario, Table K-2, December 2013).

Units: mg/kg = milligrams per kilogram

<0.25 = Not detected at stated concentration

Bold = Compound detected

Bold = Compound detected above ESL

Appendix A

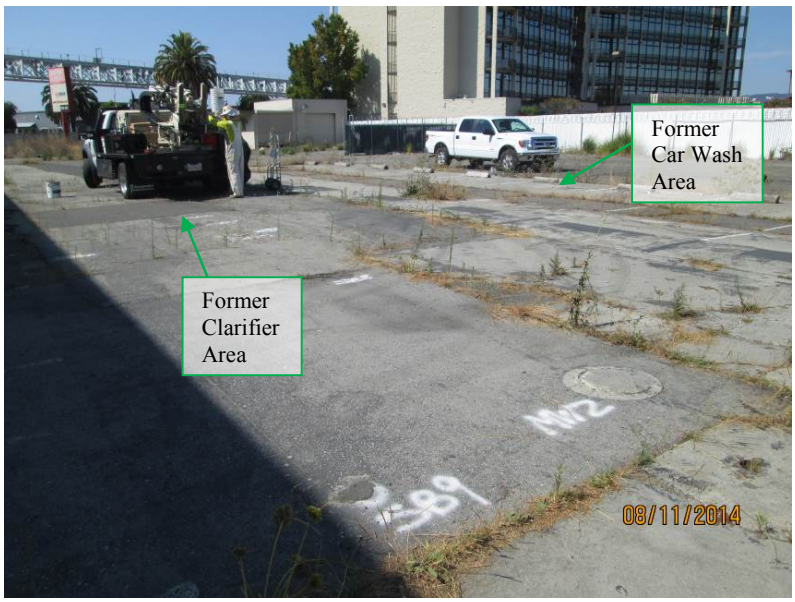
Site Photographs

Photographic Log
Hegenberger Road Property
106 - 110 Hegenberger Road
Oakland, California 94621
ERA Project No. 01-2014-500-001

Photograph: 1 **Description:** Photo depicts the perimeter fencing along the western side of the Site. Hegenberger Road is on left of photo. View to northeast.	
Photograph: 2 **Description:** Photo depicts former car wash and clarifier areas. Building on right of photo is located adjacent to the south of the Site. View to the southeast from the northwestern portion of the Site.	

Photographs taken by L. Freeman on August 11, 2014

Photographic Log
Hegenberger Road Property
106 - 110 Hegenberger Road
Oakland, California 94621
ERA Project No. 01-2014-500-001

Photograph: 3 **Description:** Photo depicts drilling rig and sampling locations. Soil gas probes have been constructed with tubing extending above ground. View to the northwest from near the center of the Site.	
Photograph: 4 **Description:** Photo depicts former clarifier and car wash area. View to the north from near the center of the Site.	

Photographs taken by L. Freeman on August 11, 2014

Photographic Log
Hegenberger Road Property
106 - 110 Hegenberger Road
Oakland, California 94621
ERA Project No. 01-2014-500-001

Photograph: 5 **Description:** Photo depicts soil gas sampling set up at sampling location SB-2.	

Photograph: 6 **Description:** Photo depicts backfilled borehole at sampling location SB-4. Container of soil cuttings present in background of photo.	

Appendix B

Approved Alameda County Public

Works Agency Soil Boring Permit

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

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

Application Approved on: 08/01/2014 By jamesy

Permit Numbers: W2014-0725
Permits Valid from 08/11/2014 to 08/11/2014

Application Id: 1406582736746 **City of Project Site:**Oakland
Site Location: 110 Hegenberger Rd, Oakland, CA
Project Start Date: 08/11/2014 **Completion Date:**08/11/2014
Assigned Inspector: Contact Sam Brathwaite at (925) 570-7609 or sbrathwaite@groundzonees.com

Applicant: Basics Envr - Donovan Tom **Phone:** 510-834-9099
655 12th St #126, Oakland, CA 94607
Property Owner: Larry David JLD Oakland Mgmt. **Phone:** 626-836-2908
11400 W Olympic Blvd, Los Angeles, CA 90064
Client: ** same as Property Owner **

Total Due: $265.00
Receipt Number: WR2014-0314 **Total Amount Paid:** $265.00
Payer Name : Basics Envr Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 9 Boreholes
Driller: ECA - Lic #: 695970 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2014-0725	08/01/2014	11/09/2014	9	1.50 in.	5.00 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 assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. 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.

6. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory

agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

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 C

Soil Boring Logs

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-1

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Logged by: Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: feet[2]						
						Asphalt - 2 inches						
1						Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2												
3	0.6					Silty Sand (SP), Very Pale Brown (10YR 8/2), fine to medium-graned sand, fine grained gravel, loose, dry						
4						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
5												
6						Bottom of Boring = 3 feet						
7												
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Boring terminated at a depth of 3 feet below ground surface. Boring backfilled with cement grout.

Groundwater encountered at a depth of _NA__ feet during drilling.NA

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-1

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-2

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

Logged by: Lita Freeman

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: feet[2]						
						Asphalt - 2 inches						
1	0.2					Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2						Silty Sand (SP), Very Pale Brown (10YR 8/2), fine to medium-graned sand, fine grained gravel, loose, dry						
3						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
4												
5												
6						Bottom of Boring = 3 feet						
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Boring terminated at a depth of 3 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-2

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-3

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

Logged by: Lita Freeman

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: __ feet[2]						
						Asphalt - 2 inches						
1						Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2												
3	0.6					Silty Sand with Gravel (SP), Red Brown (2.5YR 4/4), fine to medium-grained sand, fine grained gravel, loose, dry						
4						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
5												
6						Bottom of Boring = 3 feet						
7												
8												
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Boring terminated at a depth of 3 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-3

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-4

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Logged by: Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value [1]	LITHOLOGY	MATERIAL DESCRIPTION (Ground Surface Elevation: feet[2])	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Asphalt - 2 inches						
1						Silty Sand with Gravel (SP), Red Brown (2.5YR 4/4), fine to medium-grained sand, fine grained gravel, loose, dry						
2												
3	0.2					Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
4						Bottom of Boring = 3 feet						
5												
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Boring terminated at a depth of 3 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-4

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-5

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

Logged by: Lita Freeman

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: feet[2]						
						Asphalt - 2 inches						
1	0.8					Silty Sand with Gravel (SP), Red Brown (2.5YR 4/4), fine to medium-grained sand, fine grained gravel, loose, dry						
2						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
3						Bottom of Boring = 3 feet						
4												
5												
6												
7												
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9												
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29												
30												

Boring terminated at a depth of 3 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-5

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-6

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

Logged by: Lita Freeman

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES: PID (ppmv)	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION (Ground Surface Elevation: __ feet[2])	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
0						Asphalt - 2 inches						
1						Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2												
3	145					Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
4	58.2											
5						Bottom of Boring = 5 feet						
6												
7												
8												
9												
10												
11												
12												
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29												
30												

Boring terminated at a depth of 5 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-6

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-7

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Logged by: Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: feet[2]						
0						Asphalt - 2 inches						
1						Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2												
3						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
4												
5	101											
6						Bottom of Boring = 5 feet						
7												
8												
9												
10												
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12												
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25												
26												
27												
28												
29												
30												

Boring terminated at a depth of 5 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-7

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-8

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

Logged by: Lita Freeman

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: __ feet[2]						
						Asphalt - 2 inches						
1						Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2												
3						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
4	4.3											
5						Bottom of Boring = 5 feet						
6												
7												
8												
9												
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Boring terminated at a depth of 5 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-8

PROJECT: 106 - 110 Hegenberger Road, Oakland, California

Log of Boring SB-9

Boring location: See Figure 3

Date started: 8/11/14 Date finished: 8/11/14

Logged by: Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA Hammer type: NA

Sampler: Jeff-Environ. Controls Associates/Lita Freeman-ERA

DEPTH (feet)	SAMPLES: PID (ppmv)	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION (Ground Surface Elevation: feet[2])	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Asphalt - 2 inches						
1						Gravelly Silt (MH), Olive Brown (2.5Y 4/4), medium plasticity, fine to coarse-grained gravel, stiff, dry						
2	0.3					Silty Sand with Gravel (SP), Red Brown (2.5YR 4/4), fine to medium-grained sand, fine grained gravel, loose, dry						
3												
4						Silty Clay (CH), Dark Olive Gray (5Y 3/2), high plasticity, stiff, dry						
5												
6						Bottom of Boring = 5 feet						
7												
8												
9												
10												
11												
12												
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24												
25												
26												
27												
28												
29												
30												

Boring terminated at a depth of 5 feet below ground surface.

Boring backfilled with cement grout.

Groundwater encountered at a depth of NA feet during drilling.

Environmental Risk Assessors

Project No.: 01-2014-500-001

Figure: C-9

Appendix D

Laboratory Analytical
Report and Chain-of-Custody
Documentation

McCampbell Analytical, Inc.

"When Quality Counts"

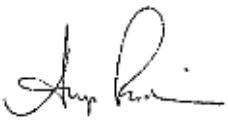
Analytical Report

WorkOrder:	1408336
Report Created for:	Basics Environmental 655 12th Street, Suite 126 Oakland, CA 94607
Project Contact:	Lita Freeman
Project P.O.:	
Project Name:	Oakland, CA
Project Received:	08/11/2014

Analytical Report reviewed & approved for release on 08/19/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

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NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

McCampbell Analytical, Inc.
"When Quality Counts"
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Glossary of Terms & Qualifier Definitions

Client: Basics Environmental
Project: Oakland, CA
WorkOrder: 1408336

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
a2	sample diluted due to cluttered chromatogram
a3	sample diluted due to high organic content.
c2	surrogate recovery outside of the control limits due to matrix interference.

Quality Control Qualifiers

F2	LCS recovery for this compound is outside of acceptance limits.

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Case Narrative

Client: Basics Environmental
Project: Oakland, CA

Work Order: 1408336
August 20, 2014

TO-15 ANALYSIS

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

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Advisory of April 2012.

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

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-1	**1408336-001A**	**Soil Gas**	**08/11/2014 14:25**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.58	**25.07**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	67,000	6.7	08/15/2014 17:47
tert-Amyl methyl ether (TAME)	ND	3300	6.7	08/15/2014 17:47
Benzene	**50,000**	3300	6.7	08/15/2014 17:47
Bromobenzene	ND	3300	6.7	08/15/2014 17:47
Bromodichloromethane	ND	3300	6.7	08/15/2014 17:47
Bromoform	ND	3300	6.7	08/15/2014 17:47
Bromomethane	ND	3300	6.7	08/15/2014 17:47
2-Butanone (MEK)	ND	13,000	6.7	08/15/2014 17:47
t-Butyl alcohol (TBA)	ND	33,000	6.7	08/15/2014 17:47
n-Butyl benzene	ND	3300	6.7	08/15/2014 17:47
sec-Butyl benzene	ND	3300	6.7	08/15/2014 17:47
tert-Butyl benzene	ND	3300	6.7	08/15/2014 17:47
Carbon Disulfide	ND	3300	6.7	08/15/2014 17:47
Carbon Tetrachloride	ND	3300	6.7	08/15/2014 17:47
Chlorobenzene	ND	3300	6.7	08/15/2014 17:47
Chloroethane	ND	3300	6.7	08/15/2014 17:47
Chloroform	ND	3300	6.7	08/15/2014 17:47
Chloromethane	ND	3300	6.7	08/15/2014 17:47
2-Chlorotoluene	ND	3300	6.7	08/15/2014 17:47
4-Chlorotoluene	ND	3300	6.7	08/15/2014 17:47
Dibromochloromethane	ND	3300	6.7	08/15/2014 17:47
1,2-Dibromo-3-chloropropane	ND	3300	6.7	08/15/2014 17:47
1,2-Dibromoethane (EDB)	ND	3300	6.7	08/15/2014 17:47
Dibromomethane	ND	3300	6.7	08/15/2014 17:47
1,2-Dichlorobenzene	ND	3300	6.7	08/15/2014 17:47
1,3-Dichlorobenzene	ND	3300	6.7	08/15/2014 17:47
1,4-Dichlorobenzene	ND	3300	6.7	08/15/2014 17:47
Dichlorodifluoromethane	ND	3300	6.7	08/15/2014 17:47
1,1-Dichloroethane	ND	3300	6.7	08/15/2014 17:47
1,2-Dichloroethane (1,2-DCA)	ND	3300	6.7	08/15/2014 17:47
1,1-Dichloroethene	ND	3300	6.7	08/15/2014 17:47
cis-1,2-Dichloroethene	ND	3300	6.7	08/15/2014 17:47
trans-1,2-Dichloroethene	ND	3300	6.7	08/15/2014 17:47
1,2-Dichloropropane	ND	3300	6.7	08/15/2014 17:47

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-1	**1408336-001A**	**Soil Gas**	**08/11/2014 14:25**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.58	**25.07**

Analytes	Result	RL	DF	Date Analyzed
1,3-Dichloropropane	ND	3300	6.7	08/15/2014 17:47
2,2-Dichloropropane	ND	3300	6.7	08/15/2014 17:47
1,1-Dichloropropene	ND	3300	6.7	08/15/2014 17:47
cis-1,3-Dichloropropene	ND	3300	6.7	08/15/2014 17:47
trans-1,3-Dichloropropene	ND	3300	6.7	08/15/2014 17:47
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3300	6.7	08/15/2014 17:47
Diisopropyl ether (DIPE)	ND	3300	6.7	08/15/2014 17:47
Ethylbenzene	ND	3300	6.7	08/15/2014 17:47
Ethyl tert-butyl ether (ETBE)	ND	3300	6.7	08/15/2014 17:47
Freon 113	ND	67,000	6.7	08/15/2014 17:47
Hexachlorobutadiene	ND	3300	6.7	08/15/2014 17:47
Hexachloroethane	ND	3300	6.7	08/15/2014 17:47
2-Hexanone	ND	3300	6.7	08/15/2014 17:47
Isopropylbenzene	ND	3300	6.7	08/15/2014 17:47
4-Isopropyl toluene	ND	3300	6.7	08/15/2014 17:47
Methyl-t-butyl ether (MTBE)	ND	3300	6.7	08/15/2014 17:47
Methylene chloride	ND	3300	6.7	08/15/2014 17:47
4-Methyl-2-pentanone (MIBK)	ND	3300	6.7	08/15/2014 17:47
Naphthalene	ND	3300	6.7	08/15/2014 17:47
n-Propyl benzene	ND	3300	6.7	08/15/2014 17:47
Styrene	ND	3300	6.7	08/15/2014 17:47
1,1,1,2-Tetrachloroethane	ND	3300	6.7	08/15/2014 17:47
1,1,2,2-Tetrachloroethane	ND	3300	6.7	08/15/2014 17:47
Tetrachloroethene	ND	3300	6.7	08/15/2014 17:47
Tetrahydrofuran	ND	3300	6.7	08/15/2014 17:47
Toluene	**5200**	3300	6.7	08/15/2014 17:47
1,2,3-Trichlorobenzene	ND	3300	6.7	08/15/2014 17:47
1,2,4-Trichlorobenzene	ND	3300	6.7	08/15/2014 17:47
1,1,1-Trichloroethane	ND	3300	6.7	08/15/2014 17:47
1,1,2-Trichloroethane	ND	3300	6.7	08/15/2014 17:47
Trichloroethene	ND	3300	6.7	08/15/2014 17:47
Trichlorofluoromethane	ND	3300	6.7	08/15/2014 17:47
1,2,3-Trichloropropane	ND	3300	6.7	08/15/2014 17:47
1,2,4-Trimethylbenzene	ND	3300	6.7	08/15/2014 17:47

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-1	**1408336-001A**	**Soil Gas**	**08/11/2014 14:25**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.58	**25.07**

Analytes	Result	RL	DF	Date Analyzed
1,3,5-Trimethylbenzene	ND	3300	6.7	08/15/2014 17:47
Vinyl Chloride	ND	3300	6.7	08/15/2014 17:47
Xylenes, Total	ND	3300	6.7	08/15/2014 17:47

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-130	08/15/2014 17:47
Toluene-d8	100	70-130	08/15/2014 17:47
4-BFB	77	70-130	08/15/2014 17:47

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-5	**1408336-005A**	**Soil Gas**	**08/11/2014 13:55**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.74	**25.39**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	200,000	20	08/15/2014 20:39
tert-Amyl methyl ether (TAME)	ND	10,000	20	08/15/2014 20:39
Benzene	ND	10,000	20	08/15/2014 20:39
Bromobenzene	ND	10,000	20	08/15/2014 20:39
Bromodichloromethane	ND	10,000	20	08/15/2014 20:39
Bromoform	ND	10,000	20	08/15/2014 20:39
Bromomethane	ND	10,000	20	08/15/2014 20:39
2-Butanone (MEK)	ND	40,000	20	08/15/2014 20:39
t-Butyl alcohol (TBA)	ND	100,000	20	08/15/2014 20:39
n-Butyl benzene	ND	10,000	20	08/15/2014 20:39
sec-Butyl benzene	ND	10,000	20	08/15/2014 20:39
tert-Butyl benzene	ND	10,000	20	08/15/2014 20:39
Carbon Disulfide	ND	10,000	20	08/15/2014 20:39
Carbon Tetrachloride	ND	10,000	20	08/15/2014 20:39
Chlorobenzene	ND	10,000	20	08/15/2014 20:39
Chloroethane	ND	10,000	20	08/15/2014 20:39
Chloroform	ND	10,000	20	08/15/2014 20:39
Chloromethane	ND	10,000	20	08/15/2014 20:39
2-Chlorotoluene	ND	10,000	20	08/15/2014 20:39
4-Chlorotoluene	ND	10,000	20	08/15/2014 20:39
Dibromochloromethane	ND	10,000	20	08/15/2014 20:39
1,2-Dibromo-3-chloropropane	ND	10,000	20	08/15/2014 20:39
1,2-Dibromoethane (EDB)	ND	10,000	20	08/15/2014 20:39
Dibromomethane	ND	10,000	20	08/15/2014 20:39
1,2-Dichlorobenzene	ND	10,000	20	08/15/2014 20:39
1,3-Dichlorobenzene	ND	10,000	20	08/15/2014 20:39
1,4-Dichlorobenzene	ND	10,000	20	08/15/2014 20:39
Dichlorodifluoromethane	ND	10,000	20	08/15/2014 20:39
1,1-Dichloroethane	ND	10,000	20	08/15/2014 20:39
1,2-Dichloroethane (1,2-DCA)	ND	10,000	20	08/15/2014 20:39
1,1-Dichloroethene	ND	10,000	20	08/15/2014 20:39
cis-1,2-Dichloroethene	ND	10,000	20	08/15/2014 20:39
trans-1,2-Dichloroethene	ND	10,000	20	08/15/2014 20:39
1,2-Dichloropropane	ND	10,000	20	08/15/2014 20:39

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-5	**1408336-005A**	**Soil Gas**	**08/11/2014 13:55**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.74	**25.39**

Analytes	Result	RL	DF	Date Analyzed
1,3-Dichloropropane	ND	10,000	20	08/15/2014 20:39
2,2-Dichloropropane	ND	10,000	20	08/15/2014 20:39
1,1-Dichloropropene	ND	10,000	20	08/15/2014 20:39
cis-1,3-Dichloropropene	ND	10,000	20	08/15/2014 20:39
trans-1,3-Dichloropropene	ND	10,000	20	08/15/2014 20:39
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	10,000	20	08/15/2014 20:39
Diisopropyl ether (DIPE)	ND	10,000	20	08/15/2014 20:39
Ethylbenzene	ND	10,000	20	08/15/2014 20:39
Ethyl tert-butyl ether (ETBE)	ND	10,000	20	08/15/2014 20:39
Freon 113	ND	200,000	20	08/15/2014 20:39
Hexachlorobutadiene	ND	10,000	20	08/15/2014 20:39
Hexachloroethane	ND	10,000	20	08/15/2014 20:39
2-Hexanone	ND	10,000	20	08/15/2014 20:39
Isopropylbenzene	ND	10,000	20	08/15/2014 20:39
4-Isopropyl toluene	ND	10,000	20	08/15/2014 20:39
Methyl-t-butyl ether (MTBE)	ND	10,000	20	08/15/2014 20:39
Methylene chloride	ND	10,000	20	08/15/2014 20:39
4-Methyl-2-pentanone (MIBK)	ND	10,000	20	08/15/2014 20:39
Naphthalene	ND	10,000	20	08/15/2014 20:39
n-Propyl benzene	ND	10,000	20	08/15/2014 20:39
Styrene	ND	10,000	20	08/15/2014 20:39
1,1,1,2-Tetrachloroethane	ND	10,000	20	08/15/2014 20:39
1,1,2,2-Tetrachloroethane	ND	10,000	20	08/15/2014 20:39
Tetrachloroethene	ND	10,000	20	08/15/2014 20:39
Tetrahydrofuran	ND	10,000	20	08/15/2014 20:39
Toluene	ND	10,000	20	08/15/2014 20:39
1,2,3-Trichlorobenzene	ND	10,000	20	08/15/2014 20:39
1,2,4-Trichlorobenzene	ND	10,000	20	08/15/2014 20:39
1,1,1-Trichloroethane	ND	10,000	20	08/15/2014 20:39
1,1,2-Trichloroethane	ND	10,000	20	08/15/2014 20:39
Trichloroethene	ND	10,000	20	08/15/2014 20:39
Trichlorofluoromethane	ND	10,000	20	08/15/2014 20:39
1,2,3-Trichloropropane	ND	10,000	20	08/15/2014 20:39
1,2,4-Trimethylbenzene	ND	10,000	20	08/15/2014 20:39

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Volatile Organics by P&T and GC/MS in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-5	**1408336-005A**	**Soil Gas**	**08/11/2014 13:55**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.74	**25.39**

Analytes	Result	RL	DF	Date Analyzed
1,3,5-Trimethylbenzene	ND	10,000	20	08/15/2014 20:39
Vinyl Chloride	ND	10,000	20	08/15/2014 20:39
Xylenes, Total	ND	10,000	20	08/15/2014 20:39

Surrogates	REC (%)	Limits	Analytical Comments: a2,a3
Dibromofluoromethane	90	70-130	08/15/2014 20:39
Toluene-d8	100	70-130	08/15/2014 20:39
4-BFB	79	70-130	08/15/2014 20:39

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 19:28	Analytical Method:	SW8260B
Date Prepared:	8/15/14	Unit:	µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-1	**1408336-001A**	**Soil Gas**	**08/11/2014 14:25**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.58	**25.07**

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	**28,000**	3300	6.7	08/15/2014 17:47

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-5	**1408336-005A**	**Soil Gas**	**08/11/2014 13:55**	**GC16**	**94130**

Initial Pressure (psia)	Final Pressure (psia)
12.74	**25.39**

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	ND	10,000	20	08/15/2014 20:39

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/13/14	Unit:	µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-2	**1408336-002A**	**Soil Gas**	**08/11/2014 14:50**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.49	**24.88**

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	**38**	28	1	08/13/2014 01:36

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3	**1408336-003A**	**Soil Gas**	**08/11/2014 15:14**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.24	**24.40**

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	ND	110	4	08/12/2014 22:04

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4	**1408336-004A**	**Soil Gas**	**08/11/2014 15:30**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
13.77	**27.45**

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	**430**	28	1	08/13/2014 02:58

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-2	**1408336-002A**	**Soil Gas**	**08/11/2014 14:50**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.49	**24.88**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	08/13/2014 01:36
Acrolein	ND	1.2	1	08/13/2014 01:36
Acrylonitrile	ND	1.1	1	08/13/2014 01:36
tert-Amyl methyl ether (TAME)	ND	2.1	1	08/13/2014 01:36
Benzene	**3200**	16	10	08/15/2014 16:46
Benzyl chloride	ND	2.6	1	08/13/2014 01:36
Bromodichloromethane	ND	3.5	1	08/13/2014 01:36
Bromoform	ND	5.2	1	08/13/2014 01:36
Bromomethane	ND	2.0	1	08/13/2014 01:36
1,3-Butadiene	ND	1.1	1	08/13/2014 01:36
2-Butanone (MEK)	ND	75	1	08/13/2014 01:36
t-Butyl alcohol (TBA)	ND	31	1	08/13/2014 01:36
Carbon Disulfide	**25**	1.6	1	08/13/2014 01:36
Carbon Tetrachloride	ND	3.2	1	08/13/2014 01:36
Chlorobenzene	ND	2.4	1	08/13/2014 01:36
Chloroethane	ND	1.3	1	08/13/2014 01:36
Chloroform	ND	2.4	1	08/13/2014 01:36
Chloromethane	ND	1.0	1	08/13/2014 01:36
Cyclohexane	**6900**	180	10	08/15/2014 16:46
Dibromochloromethane	ND	4.4	1	08/13/2014 01:36
1,2-Dibromo-3-chloropropane	ND	0.12	1	08/13/2014 01:36
1,2-Dibromoethane (EDB)	ND	3.9	1	08/13/2014 01:36
1,2-Dichlorobenzene	ND	3.0	1	08/13/2014 01:36
1,3-Dichlorobenzene	ND	3.0	1	08/13/2014 01:36
1,4-Dichlorobenzene	ND	3.0	1	08/13/2014 01:36
Dichlorodifluoromethane	ND	2.5	1	08/13/2014 01:36
1,1-Dichloroethane	ND	2.0	1	08/13/2014 01:36
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	08/13/2014 01:36
1,1-Dichloroethene	ND	2.0	1	08/13/2014 01:36
cis-1,2-Dichloroethene	ND	2.0	1	08/13/2014 01:36
trans-1,2-Dichloroethene	ND	2.0	1	08/13/2014 01:36
1,2-Dichloropropane	ND	2.4	1	08/13/2014 01:36
cis-1,3-Dichloropropene	ND	2.3	1	08/13/2014 01:36
trans-1,3-Dichloropropene	ND	2.3	1	08/13/2014 01:36

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-2	**1408336-002A**	**Soil Gas**	**08/11/2014 14:50**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.49	**24.88**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	08/13/2014 01:36
Diisopropyl ether (DIPE)	ND	2.1	1	08/13/2014 01:36
1,4-Dioxane	ND	1.8	1	08/13/2014 01:36
Ethanol	ND	96	1	08/13/2014 01:36
Ethyl acetate	ND	1.8	1	08/13/2014 01:36
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	08/13/2014 01:36
Ethylbenzene	**47**	2.2	1	08/13/2014 01:36
4-Ethyltoluene	ND	2.5	1	08/13/2014 01:36
Freon 113	ND	3.9	1	08/13/2014 01:36
Heptane	**140**	21	1	08/13/2014 01:36
Hexachlorobutadiene	ND	5.4	1	08/13/2014 01:36
Hexane	**1300**	72	4	08/12/2014 21:24
2-Hexanone	ND	2.1	1	08/13/2014 01:36
4-Methyl-2-pentanone (MIBK)	**45**	2.1	1	08/13/2014 01:36
Methyl-t-butyl ether (MTBE)	ND	1.8	1	08/13/2014 01:36
Methylene chloride	ND	1.8	1	08/13/2014 01:36
Methyl methacrylate	ND	2.1	1	08/13/2014 01:36
Naphthalene	ND	5.3	1	08/13/2014 01:36
Propene	ND	88	1	08/13/2014 01:36
Styrene	ND	2.2	1	08/13/2014 01:36
1,1,1,2-Tetrachloroethane	ND	3.5	1	08/13/2014 01:36
1,1,2,2-Tetrachloroethane	ND	3.5	1	08/13/2014 01:36
Tetrachloroethene	**18**	3.4	1	08/13/2014 01:36
Tetrahydrofuran	ND	1.5	1	08/13/2014 01:36
Toluene	**25**	1.9	1	08/13/2014 01:36
1,2,4-Trichlorobenzene	ND	3.8	1	08/13/2014 01:36
1,1,1-Trichloroethane	ND	2.8	1	08/13/2014 01:36
1,1,2-Trichloroethane	ND	2.8	1	08/13/2014 01:36
Trichloroethene	ND	2.8	1	08/13/2014 01:36
Trichlorofluoromethane	ND	2.8	1	08/13/2014 01:36
1,2,4-Trimethylbenzene	ND	2.5	1	08/13/2014 01:36
1,3,5-Trimethylbenzene	ND	2.5	1	08/13/2014 01:36
Vinyl Acetate	ND	1.8	1	08/13/2014 01:36
Vinyl Chloride	ND	1.3	1	08/13/2014 01:36

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CDPH ELAP 1644 ♦ NELAP 4033ORELAP AK Analyst's Initial Angela Rydelius, Lab Manager

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-2	**1408336-002A**	**Soil Gas**	**08/11/2014 14:50**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.49	**24.88**

Analytes	Result	RL	DF	Date Analyzed
Xylenes, Total	**27**	6.6	1	08/13/2014 01:36

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	109	70-130	08/13/2014 01:36
Toluene-d8	103	70-130	08/13/2014 01:36
4-BFB	104	70-130	08/13/2014 01:36

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3	**1408336-003A**	**Soil Gas**	**08/11/2014 15:14**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.24	**24.40**

Analytes	Result	RL	DF	Date Analyzed
Acetone	**330**	240	4	08/12/2014 22:04
Acrolein	ND	4.6	4	08/12/2014 22:04
Acrylonitrile	ND	4.4	4	08/12/2014 22:04
tert-Amyl methyl ether (TAME)	ND	8.4	4	08/12/2014 22:04
Benzene	**120**	6.4	4	08/12/2014 22:04
Benzyl chloride	ND	11	4	08/12/2014 22:04
Bromodichloromethane	ND	14	4	08/12/2014 22:04
Bromoform	ND	21	4	08/12/2014 22:04
Bromomethane	ND	7.8	4	08/12/2014 22:04
1,3-Butadiene	**42**	4.4	4	08/12/2014 22:04
2-Butanone (MEK)	ND	300	4	08/12/2014 22:04
t-Butyl alcohol (TBA)	ND	120	4	08/12/2014 22:04
Carbon Disulfide	**29**	6.4	4	08/12/2014 22:04
Carbon Tetrachloride	ND	13	4	08/12/2014 22:04
Chlorobenzene	ND	9.4	4	08/12/2014 22:04
Chloroethane	ND	5.4	4	08/12/2014 22:04
Chloroform	ND	9.8	4	08/12/2014 22:04
Chloromethane	ND	4.2	4	08/12/2014 22:04
Cyclohexane	**490**	70	4	08/12/2014 22:04
Dibromochloromethane	ND	17	4	08/12/2014 22:04
1,2-Dibromo-3-chloropropane	ND	0.49	4	08/12/2014 22:04
1,2-Dibromoethane (EDB)	ND	16	4	08/12/2014 22:04
1,2-Dichlorobenzene	ND	12	4	08/12/2014 22:04
1,3-Dichlorobenzene	ND	12	4	08/12/2014 22:04
1,4-Dichlorobenzene	ND	12	4	08/12/2014 22:04
Dichlorodifluoromethane	ND	10	4	08/12/2014 22:04
1,1-Dichloroethane	ND	8.2	4	08/12/2014 22:04
1,2-Dichloroethane (1,2-DCA)	ND	8.2	4	08/12/2014 22:04
1,1-Dichloroethene	ND	8.0	4	08/12/2014 22:04
cis-1,2-Dichloroethene	ND	8.0	4	08/12/2014 22:04
trans-1,2-Dichloroethene	ND	8.0	4	08/12/2014 22:04
1,2-Dichloropropane	ND	9.4	4	08/12/2014 22:04
cis-1,3-Dichloropropene	ND	9.2	4	08/12/2014 22:04
trans-1,3-Dichloropropene	ND	9.2	4	08/12/2014 22:04

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3	**1408336-003A**	**Soil Gas**	**08/11/2014 15:14**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.24	**24.40**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	14	4	08/12/2014 22:04
Diisopropyl ether (DIPE)	ND	8.4	4	08/12/2014 22:04
1,4-Dioxane	ND	7.4	4	08/12/2014 22:04
Ethanol	ND	380	4	08/12/2014 22:04
Ethyl acetate	ND	7.4	4	08/12/2014 22:04
Ethyl tert-butyl ether (ETBE)	ND	8.4	4	08/12/2014 22:04
Ethylbenzene	**18**	8.8	4	08/12/2014 22:04
4-Ethyltoluene	ND	10	4	08/12/2014 22:04
Freon 113	ND	16	4	08/12/2014 22:04
Heptane	**270**	84	4	08/12/2014 22:04
Hexachlorobutadiene	ND	22	4	08/12/2014 22:04
Hexane	**400**	72	4	08/12/2014 22:04
2-Hexanone	**12**	8.4	4	08/12/2014 22:04
4-Methyl-2-pentanone (MIBK)	ND	8.4	4	08/12/2014 22:04
Methyl-t-butyl ether (MTBE)	ND	7.4	4	08/12/2014 22:04
Methylene chloride	ND	7.0	4	08/12/2014 22:04
Methyl methacrylate	ND	8.3	4	08/12/2014 22:04
Naphthalene	ND	21	4	08/12/2014 22:04
Propene	ND	350	4	08/12/2014 22:04
Styrene	ND	8.6	4	08/12/2014 22:04
1,1,1,2-Tetrachloroethane	ND	14	4	08/12/2014 22:04
1,1,2,2-Tetrachloroethane	ND	14	4	08/12/2014 22:04
Tetrachloroethene	ND	14	4	08/12/2014 22:04
Tetrahydrofuran	ND	6.0	4	08/12/2014 22:04
Toluene	**21**	7.6	4	08/12/2014 22:04
1,2,4-Trichlorobenzene	ND	15	4	08/12/2014 22:04
1,1,1-Trichloroethane	ND	11	4	08/12/2014 22:04
1,1,2-Trichloroethane	ND	11	4	08/12/2014 22:04
Trichloroethene	ND	11	4	08/12/2014 22:04
Trichlorofluoromethane	ND	11	4	08/12/2014 22:04
1,2,4-Trimethylbenzene	ND	10	4	08/12/2014 22:04
1,3,5-Trimethylbenzene	ND	10	4	08/12/2014 22:04
Vinyl Acetate	ND	7.2	4	08/12/2014 22:04
Vinyl Chloride	ND	5.2	4	08/12/2014 22:04

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3	**1408336-003A**	**Soil Gas**	**08/11/2014 15:14**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
12.24	**24.40**

Analytes	Result	RL	DF	Date Analyzed
Xylenes, Total	ND	26	4	08/12/2014 22:04

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: c2
1,2-DCA-d4	97		70-130	08/12/2014 22:04
Toluene-d8	106		70-130	08/12/2014 22:04
4-BFB	201	S	70-130	08/12/2014 22:04

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

Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4	**1408336-004A**	**Soil Gas**	**08/11/2014 15:30**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
13.77	**27.45**

Analytes	Result	RL	DF	Date Analyzed
Acetone	**83**	60	1	08/13/2014 02:58
Acrolein	ND	1.2	1	08/13/2014 02:58
Acrylonitrile	ND	1.1	1	08/13/2014 02:58
tert-Amyl methyl ether (TAME)	ND	2.1	1	08/13/2014 02:58
Benzene	**25**	1.6	1	08/13/2014 02:58
Benzyl chloride	ND	2.6	1	08/13/2014 02:58
Bromodichloromethane	ND	3.5	1	08/13/2014 02:58
Bromoform	ND	5.2	1	08/13/2014 02:58
Bromomethane	ND	2.0	1	08/13/2014 02:58
1,3-Butadiene	**11**	1.1	1	08/13/2014 02:58
2-Butanone (MEK)	ND	75	1	08/13/2014 02:58
t-Butyl alcohol (TBA)	ND	31	1	08/13/2014 02:58
Carbon Disulfide	**8.5**	1.6	1	08/13/2014 02:58
Carbon Tetrachloride	ND	3.2	1	08/13/2014 02:58
Chlorobenzene	ND	2.4	1	08/13/2014 02:58
Chloroethane	ND	1.3	1	08/13/2014 02:58
Chloroform	ND	2.4	1	08/13/2014 02:58
Chloromethane	**1.8**	1.0	1	08/13/2014 02:58
Cyclohexane	**28**	18	1	08/13/2014 02:58
Dibromochloromethane	ND	4.4	1	08/13/2014 02:58
1,2-Dibromo-3-chloropropane	ND	0.12	1	08/13/2014 02:58
1,2-Dibromoethane (EDB)	ND	3.9	1	08/13/2014 02:58
1,2-Dichlorobenzene	ND	3.0	1	08/13/2014 02:58
1,3-Dichlorobenzene	ND	3.0	1	08/13/2014 02:58
1,4-Dichlorobenzene	ND	3.0	1	08/13/2014 02:58
Dichlorodifluoromethane	ND	2.5	1	08/13/2014 02:58
1,1-Dichloroethane	ND	2.0	1	08/13/2014 02:58
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	08/13/2014 02:58
1,1-Dichloroethene	ND	2.0	1	08/13/2014 02:58
cis-1,2-Dichloroethene	ND	2.0	1	08/13/2014 02:58
trans-1,2-Dichloroethene	ND	2.0	1	08/13/2014 02:58
1,2-Dichloropropane	ND	2.4	1	08/13/2014 02:58
cis-1,3-Dichloropropene	ND	2.3	1	08/13/2014 02:58
trans-1,3-Dichloropropene	ND	2.3	1	08/13/2014 02:58

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4	**1408336-004A**	**Soil Gas**	**08/11/2014 15:30**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
13.77	**27.45**

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	08/13/2014 02:58
Diisopropyl ether (DIPE)	ND	2.1	1	08/13/2014 02:58
1,4-Dioxane	ND	1.8	1	08/13/2014 02:58
Ethanol	ND	96	1	08/13/2014 02:58
Ethyl acetate	ND	1.8	1	08/13/2014 02:58
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	08/13/2014 02:58
Ethylbenzene	**6.6**	2.2	1	08/13/2014 02:58
4-Ethyltoluene	**2.6**	2.5	1	08/13/2014 02:58
Freon 113	ND	3.9	1	08/13/2014 02:58
Heptane	ND	21	1	08/13/2014 02:58
Hexachlorobutadiene	ND	5.4	1	08/13/2014 02:58
Hexane	**62**	18	1	08/13/2014 02:58
2-Hexanone	ND	2.1	1	08/13/2014 02:58
4-Methyl-2-pentanone (MIBK)	**2.6**	2.1	1	08/13/2014 02:58
Methyl-t-butyl ether (MTBE)	ND	1.8	1	08/13/2014 02:58
Methylene chloride	ND	1.8	1	08/13/2014 02:58
Methyl methacrylate	ND	2.1	1	08/13/2014 02:58
Naphthalene	ND	5.3	1	08/13/2014 02:58
Propene	ND	88	1	08/13/2014 02:58
Styrene	ND	2.2	1	08/13/2014 02:58
1,1,1,2-Tetrachloroethane	ND	3.5	1	08/13/2014 02:58
1,1,2,2-Tetrachloroethane	ND	3.5	1	08/13/2014 02:58
Tetrachloroethene	ND	3.4	1	08/13/2014 02:58
Tetrahydrofuran	ND	1.5	1	08/13/2014 02:58
Toluene	**75**	1.9	1	08/13/2014 02:58
1,2,4-Trichlorobenzene	ND	3.8	1	08/13/2014 02:58
1,1,1-Trichloroethane	ND	2.8	1	08/13/2014 02:58
1,1,2-Trichloroethane	ND	2.8	1	08/13/2014 02:58
Trichloroethene	ND	2.8	1	08/13/2014 02:58
Trichlorofluoromethane	ND	2.8	1	08/13/2014 02:58
1,2,4-Trimethylbenzene	**8.8**	2.5	1	08/13/2014 02:58
1,3,5-Trimethylbenzene	**2.8**	2.5	1	08/13/2014 02:58
Vinyl Acetate	ND	1.8	1	08/13/2014 02:58
Vinyl Chloride	ND	1.3	1	08/13/2014 02:58

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408336
Project:	Oakland, CA	Extraction Method:	TO15
Date Received:	8/11/14 19:28	Analytical Method:	TO15
Date Prepared:	8/12/14-8/15/14	Unit:	µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4	**1408336-004A**	**Soil Gas**	**08/11/2014 15:30**	**GC24**	**94042**

Initial Pressure (psia)	Final Pressure (psia)
13.77	**27.45**

Analytes	Result	RL	DF	Date Analyzed
Xylenes, Total	**28**	6.6	1	08/13/2014 02:58

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	96	70-130	08/13/2014 02:58
Toluene-d8	104	70-130	08/13/2014 02:58
4-BFB	104	70-130	08/13/2014 02:58

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408336
Date Prepared:	8/18/14	BatchID:	94130
Date Analyzed:	8/15/14	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Water	Unit:	µg/L
Project:	Oakland, CA	Sample ID:	MB/LCS-94130

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	15.4	0.50	20	-	76.8	70-130
Benzene	ND	18.7	0.50	20	-	93.4	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	56.0	2.0	80	-	70	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	19.2	0.50	20	-	96.3	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	15.9	0.50	20	-	79.7	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	17.0	0.50	20	-	84.8	70-130
1,1-Dichloroethene	ND	19.0	0.50	20	-	95.1	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408336
Date Prepared:	8/18/14	BatchID:	94130
Date Analyzed:	8/15/14	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260B
Matrix:	Water	Unit:	µg/L
Project:	Oakland, CA	Sample ID:	MB/LCS-94130

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	18.3	0.50	20	-	91.6	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	17.0	0.50	20	-	85.1	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	14.6	0.50	20	-	73.3	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	19.5	0.50	20	-	97.3	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	19.5	0.50	20	-	97.7	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	24.0	23.1		25	96	92	70-130
Toluene-d8	25.0	24.6		25	100	98	70-130
4-BFB	1.96	2.05		2.5	78	82	70-130

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408336
Date Prepared:	8/14/14	BatchID:	94042
Date Analyzed:	8/12/14	Extraction Method:	TO15
Instrument:	GC24	Analytical Method:	TO15
Matrix:	Soilgas	Unit:	nL/L
Project:	Oakland, CA	Sample ID:	MB/LCS-94042

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	33.8	25	25	-	135	60-140
Acrolein	ND	36.0	0.50	25	-	144, F2	60-140
Acrylonitrile	ND	28.8	0.50	25	-	115	60-140
tert-Amyl methyl ether (TAME)	ND	27.8	0.50	25	-	111	60-140
Benzene	ND	23.4	0.50	25	-	93.7	60-140
Benzyl chloride	ND	29.1	0.50	25	-	116	60-140
Bromodichloromethane	ND	25.7	0.50	25	-	103	60-140
Bromoform	ND	38.0	0.50	25	-	152, F2	60-140
Bromomethane	ND	25.9	0.50	25	-	104	60-140
1,3-Butadiene	ND	28.9	0.50	25	-	116	60-140
2-Butanone (MEK)	ND	28.0	25	25	-	112	60-140
t-Butyl alcohol (TBA)	ND	26.9	10	25	-	108	60-140
Carbon Disulfide	ND	25.2	0.50	25	-	101	60-140
Carbon Tetrachloride	ND	25.1	0.50	25	-	101	60-140
Chlorobenzene	ND	24.8	0.50	25	-	99.4	60-140
Chloroethane	ND	26.0	0.50	25	-	104	60-140
Chloroform	ND	20.4	0.50	25	-	81.8	60-140
Chloromethane	ND	26.1	0.50	25	-	104	60-140
Cyclohexane	ND	25.3	5.0	25	-	101	60-140
Dibromochloromethane	ND	28.6	0.50	25	-	114	60-140
1,2-Dibromo-3-chloropropane	ND	35.8	0.012	25	-	143, F2	60-140
1,2-Dibromoethane (EDB)	ND	24.9	0.50	25	-	99.5	60-140
1,2-Dichlorobenzene	ND	24.9	0.50	25	-	99.6	60-140
1,3-Dichlorobenzene	ND	25.6	0.50	25	-	102	60-140
1,4-Dichlorobenzene	ND	24.6	0.50	25	-	98.3	60-140
Dichlorodifluoromethane	ND	23.0	0.50	25	-	92.1	60-140
1,1-Dichloroethane	ND	25.7	0.50	25	-	103	60-140
1,2-Dichloroethane (1,2-DCA)	ND	23.7	0.50	25	-	94.7	60-140
1,1-Dichloroethene	ND	25.1	0.50	25	-	100	60-140
cis-1,2-Dichloroethene	ND	25.1	0.50	25	-	101	60-140
trans-1,2-Dichloroethene	ND	24.6	0.50	25	-	98.6	60-140
1,2-Dichloropropane	ND	26.1	0.50	25	-	105	60-140
cis-1,3-Dichloropropene	ND	27.6	0.50	25	-	110	60-140
trans-1,3-Dichloropropene	ND	25.9	0.50	25	-	104	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	23.4	0.50	25	-	93.8	60-140
Diisopropyl ether (DIPE)	ND	27.9	0.50	25	-	112	60-140
1,4-Dioxane	ND	25.4	0.50	25	-	102	60-140
Ethanol	ND	-	50	-	-	-	-
Ethyl acetate	ND	27.2	0.50	25	-	109	60-140
Ethyl tert-butyl ether (ETBE)	ND	26.7	0.50	25	-	107	60-140

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408336
Date Prepared:	8/14/14	BatchID:	94042
Date Analyzed:	8/12/14	Extraction Method:	TO15
Instrument:	GC24	Analytical Method:	TO15
Matrix:	Soilgas	Unit:	nL/L
Project:	Oakland, CA	Sample ID:	MB/LCS-94042

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethylbenzene	ND	25.8	0.50	25	-	103	60-140
4-Ethyltoluene	ND	25.9	0.50	25	-	104	60-140
Freon 113	ND	22.5	0.50	25	-	90.1	60-140
Heptane	ND	26.2	5.0	25	-	105	60-140
Hexachlorobutadiene	ND	23.0	0.50	25	-	92	60-140
Hexane	ND	28.6	5.0	25	-	115	60-140
2-Hexanone	ND	29.6	0.50	25	-	119	60-140
4-Methyl-2-pentanone (MIBK)	ND	33.4	0.50	25	-	133	60-140
Methyl-t-butyl ether (MTBE)	ND	25.6	0.50	25	-	102	60-140
Methylene chloride	ND	21.7	0.50	25	-	86.7	60-140
Methyl methacrylate	ND	29.9	0.50	25	-	119	60-140
Naphthalene	ND	65.4	1.0	50	-	131	60-140
Propene	ND	-	50	-	-	-	-
Styrene	ND	28.5	0.50	25	-	114	60-140
1,1,1,2-Tetrachloroethane	ND	27.1	0.50	25	-	108	60-140
1,1,2,2-Tetrachloroethane	ND	24.4	0.50	25	-	97.4	60-140
Tetrachloroethene	ND	26.2	0.50	25	-	105	60-140
Tetrahydrofuran	ND	23.6	0.50	25	-	94.5	60-140
Toluene	ND	25.3	0.50	25	-	101	60-140
1,2,4-Trichlorobenzene	ND	27.4	0.50	25	-	109	60-140
1,1,1-Trichloroethane	ND	26.9	0.50	25	-	107	60-140
1,1,2-Trichloroethane	ND	22.1	0.50	25	-	88.5	60-140
Trichloroethene	ND	23.5	0.50	25	-	93.9	60-140
Trichlorofluoromethane	ND	29.6	0.50	25	-	119	60-140
1,2,4-Trimethylbenzene	ND	23.9	0.50	25	-	95.7	60-140
1,3,5-Trimethylbenzene	ND	22.6	0.50	25	-	90.5	60-140
Vinyl Acetate	ND	31.6	0.50	25	-	127	60-140
Vinyl Chloride	ND	25.8	0.50	25	-	103	60-140
Xylenes, Total	ND	72.6	1.5	75	-	96.8	60-140
Surrogate Recovery							
1,2-DCA-d4	493	493		500	99	99	60-140
Toluene-d8	518	521		500	104	104	60-140
4-BFB	494	500		500	99	100	60-140

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1408336 ClientCode: BEO

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

Report to:
Lita Freeman
Basics Environmental
655 12th Street, Suite 126
Oakland, CA 94607
(510) 834-9099 FAX: (510) 834-9098

Email: litafreeman@gmail.com
cc/3rd Party: basics@aol.com; basicsenvironmental@g
PO:
ProjectNo: Oakland, CA

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

Requested TAT: **5 days**

Date Received: 08/11/2014
Date Printed: 08/20/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1408336-001	SB-1	Soil Gas	8/11/2014 14:25	☐	A											
1408336-002	SB-2	Soil Gas	8/11/2014 14:50	☐	A											
1408336-003	SB-3	Soil Gas	8/11/2014 15:14	☐	A											
1408336-004	SB-4	Soil Gas	8/11/2014 15:30	☐	A											
1408336-005	SB-5	Soil Gas	8/11/2014 13:55	☐	A											

Test Legend:

1	O15_Scan-SIM_SOIL(UG/M3	2		3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

Prepared by: Jena Alfaro

Comments:

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

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WORK ORDER SUMMARY

Client Name: BASICS ENVIRONMENTAL
Project: Oakland, CA
Comments:

QC Level: LEVEL 2
Client Contact: Lita Freeman
Contact's Email: litafreeman@gmail.com

Work Order: 1408336
Date Received: 8/11/2014

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

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1408336-001A	SB-1	Soil Gas	TO15 for Soil Vapor	1	1L Summa	☐	8/11/2014 14:25	5 days		☐
1408336-002A	SB-2	Soil Gas	TO15 for Soil Vapor	1	1L Summa	☐	8/11/2014 14:50	5 days		☐
1408336-003A	SB-3	Soil Gas	TO15 for Soil Vapor	1	1L Summa	☐	8/11/2014 15:14	5 days		☐
1408336-004A	SB-4	Soil Gas	TO15 for Soil Vapor	1	1L Summa	☐	8/11/2014 15:30	5 days		☐
1408336-005A	SB-5	Soil Gas	TO15 for Soil Vapor	1	1L Summa	☐	8/11/2014 13:55	5 days		☐

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
1L Summa = 1L Summa Canister

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1408336

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ EQuIS ☐ 10 DAY ☐

UST Clean Up Fund Project ☐ Claim #

Report To: Lita Freeman	**Bill To:** Basics Environmental / Donovan Tom
Company: Basics Environmental	
655 12th Street, Suite 126 Oakland, CA 94607	**E-Mail:** litafreeman@gmail.com / basicsenvironmental@gmail.com
Tele: ( )	**Fax:** ( )
Project #:	**Project Name:**
Project Location: Hegenberger Road, Oakland, CA	
Sampler Signature: Lita Freeman	

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	VOCs by TO-15 (ug/m3)	8010 by TO-15 (ug/m3)	TPH(g) (ug/m3)	LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L	Fixed Gas: O2, N2 (please circle) uL/L	Fixed Gas: Propane uL/L	Helium Leak Check (%)	Leak Check (IPA, Norflorane, 1,1-difluroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other:	Matrix: Soilgas	Matrix: Indoor Air	Cannister Pressure/ Vacuum: Initial	Cannister Pressure/ Vacuum: Final
SB-1	8/11/14	1425	CAN6309-789		✓											X		-30	-4.5
SB-2	8/11/14	1450	CAN6311-791		✓											X		-29.5	-3
SB-3	8/11/14	1514	CAN5804-735		✓											X		-28	-3
SB-4	8/11/14	1530	CAN6169-755		✓											X		-30	-3
SB-5	8/11/14	1355	CAN5808-739		✓											X		-30	-4

Analysis Requested

Helium Shroud SN#

Other:

Notes: Please Specify units if different than defaults VOCs is ug/m3 and fixed gas is uL/L. Leak check default is IPA.
Leak check 1,1-DFA
Report to Lita Freeman and Donovan Tom

Relinquished By:	Date:	Time:	Received By:
Lita Freeman	8/11/14	1820	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C): _____ Work Order #: _____

Condition: _____

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____

QUOTE #4018

* Containers Rec'd unlabled. Confirmed By Canister #.

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Sample Receipt Checklist

Client Name: **Basics Environmental**
Date and Time Received: **8/11/2014 7:28:27 PM**

Project Name: **Oakland, CA**
LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1408336** Matrix: Soil Gas
Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

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

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

Comments: Sample labels blank.

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder:	1408335
Report Created for:	Basics Environmental 655 12th Street, Suite 126 Oakland, CA 94607
Project Contact:	Lita Freeman
Project P.O.:	
Project Name:	Oakland, CA
Project Received:	08/11/2014

Analytical Report reviewed & approved for release on 08/19/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

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NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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Glossary of Terms & Qualifier Definitions

Client: Basics Environmental
Project: Oakland, CA
WorkOrder: 1408335

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d6	one to a few isolated non-target peaks present in the TPH(g) chromatogram
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

Quality Control Qualifiers

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

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SM5520E/F
Date Received:	8/11/14 18:49	Analytical Method:	SM5520E/F
Date Prepared:	8/12/14	Unit:	mg/Kg

Petroleum Oil & Grease with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-5	**1408335-001A**	**Soil**	**08/11/2014 12:45**	**O&G**	**93932**

Analytes	Result	RL	DF	Date Analyzed
POG	**910**	50	1	08/12/2014 15:00

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-7-5	**1408335-002A**	**Soil**	**08/11/2014 13:00**	**O&G**	**93932**

Analytes	Result	RL	DF	Date Analyzed
POG	**530**	50	1	08/12/2014 15:05

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-8-5	**1408335-003A**	**Soil**	**08/11/2014 13:10**	**O&G**	**93932**

Analytes	Result	RL	DF	Date Analyzed
POG	**160**	50	1	08/12/2014 15:10

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-9-5	**1408335-004A**	**Soil**	**08/11/2014 13:25**	**O&G**	**93932**

Analytes	Result	RL	DF	Date Analyzed
POG	**53**	50	1	08/12/2014 14:45

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-5	**1408335-001A**	**Soil**	**08/11/2014 12:45**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	20	200	08/19/2014 12:58
tert-Amyl methyl ether (TAME)	ND	1.0	200	08/19/2014 12:58
Benzene	**8.6**	1.0	200	08/19/2014 12:58
Bromobenzene	ND	1.0	200	08/19/2014 12:58
Bromochloromethane	ND	1.0	200	08/19/2014 12:58
Bromodichloromethane	ND	1.0	200	08/19/2014 12:58
Bromoform	ND	1.0	200	08/19/2014 12:58
Bromomethane	ND	1.0	200	08/19/2014 12:58
2-Butanone (MEK)	ND	4.0	200	08/19/2014 12:58
t-Butyl alcohol (TBA)	ND	10	200	08/19/2014 12:58
n-Butyl benzene	**6.8**	1.0	200	08/19/2014 12:58
sec-Butyl benzene	**2.5**	1.0	200	08/19/2014 12:58
tert-Butyl benzene	ND	1.0	200	08/19/2014 12:58
Carbon Disulfide	ND	1.0	200	08/19/2014 12:58
Carbon Tetrachloride	ND	1.0	200	08/19/2014 12:58
Chlorobenzene	ND	1.0	200	08/19/2014 12:58
Chloroethane	ND	1.0	200	08/19/2014 12:58
Chloroform	ND	1.0	200	08/19/2014 12:58
Chloromethane	ND	1.0	200	08/19/2014 12:58
2-Chlorotoluene	ND	1.0	200	08/19/2014 12:58
4-Chlorotoluene	ND	1.0	200	08/19/2014 12:58
Dibromochloromethane	ND	1.0	200	08/19/2014 12:58
1,2-Dibromo-3-chloropropane	ND	0.80	200	08/19/2014 12:58
1,2-Dibromoethane (EDB)	ND	0.80	200	08/19/2014 12:58
Dibromomethane	ND	1.0	200	08/19/2014 12:58
1,2-Dichlorobenzene	ND	1.0	200	08/19/2014 12:58
1,3-Dichlorobenzene	ND	1.0	200	08/19/2014 12:58
1,4-Dichlorobenzene	ND	1.0	200	08/19/2014 12:58
Dichlorodifluoromethane	ND	1.0	200	08/19/2014 12:58
1,1-Dichloroethane	ND	1.0	200	08/19/2014 12:58
1,2-Dichloroethane (1,2-DCA)	ND	0.80	200	08/19/2014 12:58
1,1-Dichloroethene	ND	1.0	200	08/19/2014 12:58
cis-1,2-Dichloroethene	ND	1.0	200	08/19/2014 12:58
trans-1,2-Dichloroethene	ND	1.0	200	08/19/2014 12:58
1,2-Dichloropropane	ND	1.0	200	08/19/2014 12:58
1,3-Dichloropropane	ND	1.0	200	08/19/2014 12:58
2,2-Dichloropropane	ND	1.0	200	08/19/2014 12:58
1,1-Dichloropropene	ND	1.0	200	08/19/2014 12:58

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-5	**1408335-001A**	**Soil**	**08/11/2014 12:45**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.0	200	08/19/2014 12:58
trans-1,3-Dichloropropene	ND	1.0	200	08/19/2014 12:58
Diisopropyl ether (DIPE)	ND	1.0	200	08/19/2014 12:58
Ethylbenzene	**7.5**	1.0	200	08/19/2014 12:58
Ethyl tert-butyl ether (ETBE)	ND	1.0	200	08/19/2014 12:58
Freon 113	ND	20	200	08/19/2014 12:58
Hexachlorobutadiene	ND	1.0	200	08/19/2014 12:58
Hexachloroethane	ND	1.0	200	08/19/2014 12:58
2-Hexanone	ND	1.0	200	08/19/2014 12:58
Isopropylbenzene	**8.0**	1.0	200	08/19/2014 12:58
4-Isopropyl toluene	ND	1.0	200	08/19/2014 12:58
Methyl-t-butyl ether (MTBE)	ND	1.0	200	08/19/2014 12:58
Methylene chloride	ND	1.0	200	08/19/2014 12:58
4-Methyl-2-pentanone (MIBK)	ND	1.0	200	08/19/2014 12:58
Naphthalene	**19**	1.0	200	08/19/2014 12:58
n-Propyl benzene	**26**	1.0	200	08/19/2014 12:58
Styrene	ND	1.0	200	08/19/2014 12:58
1,1,1,2-Tetrachloroethane	ND	1.0	200	08/19/2014 12:58
1,1,2,2-Tetrachloroethane	ND	1.0	200	08/19/2014 12:58
Tetrachloroethene	ND	1.0	200	08/19/2014 12:58
Toluene	ND	1.0	200	08/19/2014 12:58
1,2,3-Trichlorobenzene	ND	1.0	200	08/19/2014 12:58
1,2,4-Trichlorobenzene	ND	1.0	200	08/19/2014 12:58
1,1,1-Trichloroethane	ND	1.0	200	08/19/2014 12:58
1,1,2-Trichloroethane	ND	1.0	200	08/19/2014 12:58
Trichloroethene	ND	1.0	200	08/19/2014 12:58
Trichlorofluoromethane	ND	1.0	200	08/19/2014 12:58
1,2,3-Trichloropropane	ND	1.0	200	08/19/2014 12:58
1,2,4-Trimethylbenzene	ND	1.0	200	08/19/2014 12:58
1,3,5-Trimethylbenzene	ND	1.0	200	08/19/2014 12:58
Vinyl Chloride	ND	1.0	200	08/19/2014 12:58
Xylenes, Total	**1.2**	1.0	200	08/19/2014 12:58

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	08/19/2014 12:58
Toluene-d8	94	70-130	08/19/2014 12:58
4-BFB	101	70-130	08/19/2014 12:58

(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP AK Analyst's Initial Angela Rydelius, Lab Manager

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-7-5	**1408335-002A**	**Soil**	**08/11/2014 13:00**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	20	200	08/16/2014 01:39
tert-Amyl methyl ether (TAME)	ND	1.0	200	08/16/2014 01:39
Benzene	**3.5**	1.0	200	08/16/2014 01:39
Bromobenzene	ND	1.0	200	08/16/2014 01:39
Bromochloromethane	ND	1.0	200	08/16/2014 01:39
Bromodichloromethane	ND	1.0	200	08/16/2014 01:39
Bromoform	ND	1.0	200	08/16/2014 01:39
Bromomethane	ND	1.0	200	08/16/2014 01:39
2-Butanone (MEK)	ND	4.0	200	08/16/2014 01:39
t-Butyl alcohol (TBA)	ND	10	200	08/16/2014 01:39
n-Butyl benzene	**3.0**	1.0	200	08/16/2014 01:39
sec-Butyl benzene	**1.1**	1.0	200	08/16/2014 01:39
tert-Butyl benzene	ND	1.0	200	08/16/2014 01:39
Carbon Disulfide	ND	1.0	200	08/16/2014 01:39
Carbon Tetrachloride	ND	1.0	200	08/16/2014 01:39
Chlorobenzene	ND	1.0	200	08/16/2014 01:39
Chloroethane	ND	1.0	200	08/16/2014 01:39
Chloroform	ND	1.0	200	08/16/2014 01:39
Chloromethane	ND	1.0	200	08/16/2014 01:39
2-Chlorotoluene	ND	1.0	200	08/16/2014 01:39
4-Chlorotoluene	ND	1.0	200	08/16/2014 01:39
Dibromochloromethane	ND	1.0	200	08/16/2014 01:39
1,2-Dibromo-3-chloropropane	ND	0.80	200	08/16/2014 01:39
1,2-Dibromoethane (EDB)	ND	0.80	200	08/16/2014 01:39
Dibromomethane	ND	1.0	200	08/16/2014 01:39
1,2-Dichlorobenzene	ND	1.0	200	08/16/2014 01:39
1,3-Dichlorobenzene	ND	1.0	200	08/16/2014 01:39
1,4-Dichlorobenzene	ND	1.0	200	08/16/2014 01:39
Dichlorodifluoromethane	ND	1.0	200	08/16/2014 01:39
1,1-Dichloroethane	ND	1.0	200	08/16/2014 01:39
1,2-Dichloroethane (1,2-DCA)	ND	0.80	200	08/16/2014 01:39
1,1-Dichloroethene	ND	1.0	200	08/16/2014 01:39
cis-1,2-Dichloroethene	ND	1.0	200	08/16/2014 01:39
trans-1,2-Dichloroethene	ND	1.0	200	08/16/2014 01:39
1,2-Dichloropropane	ND	1.0	200	08/16/2014 01:39
1,3-Dichloropropane	ND	1.0	200	08/16/2014 01:39
2,2-Dichloropropane	ND	1.0	200	08/16/2014 01:39
1,1-Dichloropropene	ND	1.0	200	08/16/2014 01:39

(Cont.)

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-7-5	**1408335-002A**	**Soil**	**08/11/2014 13:00**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.0	200	08/16/2014 01:39
trans-1,3-Dichloropropene	ND	1.0	200	08/16/2014 01:39
Diisopropyl ether (DIPE)	ND	1.0	200	08/16/2014 01:39
Ethylbenzene	**2.6**	1.0	200	08/16/2014 01:39
Ethyl tert-butyl ether (ETBE)	ND	1.0	200	08/16/2014 01:39
Freon 113	ND	20	200	08/16/2014 01:39
Hexachlorobutadiene	ND	1.0	200	08/16/2014 01:39
Hexachloroethane	ND	1.0	200	08/16/2014 01:39
2-Hexanone	ND	1.0	200	08/16/2014 01:39
Isopropylbenzene	**3.0**	1.0	200	08/16/2014 01:39
4-Isopropyl toluene	ND	1.0	200	08/16/2014 01:39
Methyl-t-butyl ether (MTBE)	ND	1.0	200	08/16/2014 01:39
Methylene chloride	ND	1.0	200	08/16/2014 01:39
4-Methyl-2-pentanone (MIBK)	ND	1.0	200	08/16/2014 01:39
Naphthalene	**7.7**	1.0	200	08/16/2014 01:39
n-Propyl benzene	**10**	1.0	200	08/16/2014 01:39
Styrene	ND	1.0	200	08/16/2014 01:39
1,1,1,2-Tetrachloroethane	ND	1.0	200	08/16/2014 01:39
1,1,2,2-Tetrachloroethane	ND	1.0	200	08/16/2014 01:39
Tetrachloroethene	ND	1.0	200	08/16/2014 01:39
Toluene	ND	1.0	200	08/16/2014 01:39
1,2,3-Trichlorobenzene	ND	1.0	200	08/16/2014 01:39
1,2,4-Trichlorobenzene	ND	1.0	200	08/16/2014 01:39
1,1,1-Trichloroethane	ND	1.0	200	08/16/2014 01:39
1,1,2-Trichloroethane	ND	1.0	200	08/16/2014 01:39
Trichloroethene	ND	1.0	200	08/16/2014 01:39
Trichlorofluoromethane	ND	1.0	200	08/16/2014 01:39
1,2,3-Trichloropropane	ND	1.0	200	08/16/2014 01:39
1,2,4-Trimethylbenzene	ND	1.0	200	08/16/2014 01:39
1,3,5-Trimethylbenzene	ND	1.0	200	08/16/2014 01:39
Vinyl Chloride	ND	1.0	200	08/16/2014 01:39
Xylenes, Total	ND	1.0	200	08/16/2014 01:39

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	08/16/2014 01:39
Toluene-d8	100	70-130	08/16/2014 01:39
4-BFB	97	70-130	08/16/2014 01:39

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-8-5	**1408335-003A**	**Soil**	**08/11/2014 13:10**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	1.0	10	08/16/2014 02:20
tert-Amyl methyl ether (TAME)	ND	0.050	10	08/16/2014 02:20
Benzene	ND	0.050	10	08/16/2014 02:20
Bromobenzene	ND	0.050	10	08/16/2014 02:20
Bromochloromethane	ND	0.050	10	08/16/2014 02:20
Bromodichloromethane	ND	0.050	10	08/16/2014 02:20
Bromoform	ND	0.050	10	08/16/2014 02:20
Bromomethane	ND	0.050	10	08/16/2014 02:20
2-Butanone (MEK)	ND	0.20	10	08/16/2014 02:20
t-Butyl alcohol (TBA)	ND	0.50	10	08/16/2014 02:20
n-Butyl benzene	ND	0.050	10	08/16/2014 02:20
sec-Butyl benzene	ND	0.050	10	08/16/2014 02:20
tert-Butyl benzene	ND	0.050	10	08/16/2014 02:20
Carbon Disulfide	ND	0.050	10	08/16/2014 02:20
Carbon Tetrachloride	ND	0.050	10	08/16/2014 02:20
Chlorobenzene	ND	0.050	10	08/16/2014 02:20
Chloroethane	ND	0.050	10	08/16/2014 02:20
Chloroform	ND	0.050	10	08/16/2014 02:20
Chloromethane	ND	0.050	10	08/16/2014 02:20
2-Chlorotoluene	ND	0.050	10	08/16/2014 02:20
4-Chlorotoluene	ND	0.050	10	08/16/2014 02:20
Dibromochloromethane	ND	0.050	10	08/16/2014 02:20
1,2-Dibromo-3-chloropropane	ND	0.040	10	08/16/2014 02:20
1,2-Dibromoethane (EDB)	ND	0.040	10	08/16/2014 02:20
Dibromomethane	ND	0.050	10	08/16/2014 02:20
1,2-Dichlorobenzene	ND	0.050	10	08/16/2014 02:20
1,3-Dichlorobenzene	ND	0.050	10	08/16/2014 02:20
1,4-Dichlorobenzene	ND	0.050	10	08/16/2014 02:20
Dichlorodifluoromethane	ND	0.050	10	08/16/2014 02:20
1,1-Dichloroethane	ND	0.050	10	08/16/2014 02:20
1,2-Dichloroethane (1,2-DCA)	ND	0.040	10	08/16/2014 02:20
1,1-Dichloroethene	ND	0.050	10	08/16/2014 02:20
cis-1,2-Dichloroethene	ND	0.050	10	08/16/2014 02:20
trans-1,2-Dichloroethene	ND	0.050	10	08/16/2014 02:20
1,2-Dichloropropane	ND	0.050	10	08/16/2014 02:20
1,3-Dichloropropane	ND	0.050	10	08/16/2014 02:20
2,2-Dichloropropane	ND	0.050	10	08/16/2014 02:20
1,1-Dichloropropene	ND	0.050	10	08/16/2014 02:20

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-8-5	**1408335-003A**	**Soil**	**08/11/2014 13:10**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.050	10	08/16/2014 02:20
trans-1,3-Dichloropropene	ND	0.050	10	08/16/2014 02:20
Diisopropyl ether (DIPE)	ND	0.050	10	08/16/2014 02:20
Ethylbenzene	ND	0.050	10	08/16/2014 02:20
Ethyl tert-butyl ether (ETBE)	ND	0.050	10	08/16/2014 02:20
Freon 113	ND	1.0	10	08/16/2014 02:20
Hexachlorobutadiene	ND	0.050	10	08/16/2014 02:20
Hexachloroethane	ND	0.050	10	08/16/2014 02:20
2-Hexanone	ND	0.050	10	08/16/2014 02:20
Isopropylbenzene	**0.21**	0.050	10	08/16/2014 02:20
4-Isopropyl toluene	ND	0.050	10	08/16/2014 02:20
Methyl-t-butyl ether (MTBE)	ND	0.050	10	08/16/2014 02:20
Methylene chloride	ND	0.050	10	08/16/2014 02:20
4-Methyl-2-pentanone (MIBK)	ND	0.050	10	08/16/2014 02:20
Naphthalene	ND	0.050	10	08/16/2014 02:20
n-Propyl benzene	**0.60**	0.050	10	08/16/2014 02:20
Styrene	ND	0.050	10	08/16/2014 02:20
1,1,1,2-Tetrachloroethane	ND	0.050	10	08/16/2014 02:20
1,1,2,2-Tetrachloroethane	ND	0.050	10	08/16/2014 02:20
Tetrachloroethene	ND	0.050	10	08/16/2014 02:20
Toluene	ND	0.050	10	08/16/2014 02:20
1,2,3-Trichlorobenzene	ND	0.050	10	08/16/2014 02:20
1,2,4-Trichlorobenzene	ND	0.050	10	08/16/2014 02:20
1,1,1-Trichloroethane	ND	0.050	10	08/16/2014 02:20
1,1,2-Trichloroethane	ND	0.050	10	08/16/2014 02:20
Trichloroethene	ND	0.050	10	08/16/2014 02:20
Trichlorofluoromethane	ND	0.050	10	08/16/2014 02:20
1,2,3-Trichloropropane	ND	0.050	10	08/16/2014 02:20
1,2,4-Trimethylbenzene	ND	0.050	10	08/16/2014 02:20
1,3,5-Trimethylbenzene	ND	0.050	10	08/16/2014 02:20
Vinyl Chloride	ND	0.050	10	08/16/2014 02:20
Xylenes, Total	ND	0.050	10	08/16/2014 02:20

Surrogates	REC (%)	Limits	
Dibromofluoromethane	100	70-130	08/16/2014 02:20
Toluene-d8	102	70-130	08/16/2014 02:20
4-BFB	103	70-130	08/16/2014 02:20

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-9-5	**1408335-004A**	**Soil**	**08/11/2014 13:25**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/13/2014 03:55
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/13/2014 03:55
Benzene	ND	0.0050	1	08/13/2014 03:55
Bromobenzene	ND	0.0050	1	08/13/2014 03:55
Bromochloromethane	ND	0.0050	1	08/13/2014 03:55
Bromodichloromethane	ND	0.0050	1	08/13/2014 03:55
Bromoform	ND	0.0050	1	08/13/2014 03:55
Bromomethane	ND	0.0050	1	08/13/2014 03:55
2-Butanone (MEK)	ND	0.020	1	08/13/2014 03:55
t-Butyl alcohol (TBA)	ND	0.050	1	08/13/2014 03:55
n-Butyl benzene	ND	0.0050	1	08/13/2014 03:55
sec-Butyl benzene	ND	0.0050	1	08/13/2014 03:55
tert-Butyl benzene	ND	0.0050	1	08/13/2014 03:55
Carbon Disulfide	ND	0.0050	1	08/13/2014 03:55
Carbon Tetrachloride	ND	0.0050	1	08/13/2014 03:55
Chlorobenzene	ND	0.0050	1	08/13/2014 03:55
Chloroethane	ND	0.0050	1	08/13/2014 03:55
Chloroform	ND	0.0050	1	08/13/2014 03:55
Chloromethane	ND	0.0050	1	08/13/2014 03:55
2-Chlorotoluene	ND	0.0050	1	08/13/2014 03:55
4-Chlorotoluene	ND	0.0050	1	08/13/2014 03:55
Dibromochloromethane	ND	0.0050	1	08/13/2014 03:55
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/13/2014 03:55
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/13/2014 03:55
Dibromomethane	ND	0.0050	1	08/13/2014 03:55
1,2-Dichlorobenzene	ND	0.0050	1	08/13/2014 03:55
1,3-Dichlorobenzene	ND	0.0050	1	08/13/2014 03:55
1,4-Dichlorobenzene	ND	0.0050	1	08/13/2014 03:55
Dichlorodifluoromethane	ND	0.0050	1	08/13/2014 03:55
1,1-Dichloroethane	ND	0.0050	1	08/13/2014 03:55
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/13/2014 03:55
1,1-Dichloroethene	ND	0.0050	1	08/13/2014 03:55
cis-1,2-Dichloroethene	ND	0.0050	1	08/13/2014 03:55
trans-1,2-Dichloroethene	ND	0.0050	1	08/13/2014 03:55
1,2-Dichloropropane	ND	0.0050	1	08/13/2014 03:55
1,3-Dichloropropane	ND	0.0050	1	08/13/2014 03:55
2,2-Dichloropropane	ND	0.0050	1	08/13/2014 03:55
1,1-Dichloropropene	ND	0.0050	1	08/13/2014 03:55

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8260B
Date Prepared:	8/11/14	Unit:	mg/kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-9-5	**1408335-004A**	**Soil**	**08/11/2014 13:25**	**GC10**	**93910**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/13/2014 03:55
trans-1,3-Dichloropropene	ND	0.0050	1	08/13/2014 03:55
Diisopropyl ether (DIPE)	ND	0.0050	1	08/13/2014 03:55
Ethylbenzene	ND	0.0050	1	08/13/2014 03:55
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/13/2014 03:55
Freon 113	ND	0.10	1	08/13/2014 03:55
Hexachlorobutadiene	ND	0.0050	1	08/13/2014 03:55
Hexachloroethane	ND	0.0050	1	08/13/2014 03:55
2-Hexanone	ND	0.0050	1	08/13/2014 03:55
Isopropylbenzene	ND	0.0050	1	08/13/2014 03:55
4-Isopropyl toluene	ND	0.0050	1	08/13/2014 03:55
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/13/2014 03:55
Methylene chloride	ND	0.0050	1	08/13/2014 03:55
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/13/2014 03:55
Naphthalene	ND	0.0050	1	08/13/2014 03:55
n-Propyl benzene	ND	0.0050	1	08/13/2014 03:55
Styrene	ND	0.0050	1	08/13/2014 03:55
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/13/2014 03:55
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/13/2014 03:55
Tetrachloroethene	ND	0.0050	1	08/13/2014 03:55
Toluene	ND	0.0050	1	08/13/2014 03:55
1,2,3-Trichlorobenzene	ND	0.0050	1	08/13/2014 03:55
1,2,4-Trichlorobenzene	ND	0.0050	1	08/13/2014 03:55
1,1,1-Trichloroethane	ND	0.0050	1	08/13/2014 03:55
1,1,2-Trichloroethane	ND	0.0050	1	08/13/2014 03:55
Trichloroethene	ND	0.0050	1	08/13/2014 03:55
Trichlorofluoromethane	ND	0.0050	1	08/13/2014 03:55
1,2,3-Trichloropropane	ND	0.0050	1	08/13/2014 03:55
1,2,4-Trimethylbenzene	ND	0.0050	1	08/13/2014 03:55
1,3,5-Trimethylbenzene	ND	0.0050	1	08/13/2014 03:55
Vinyl Chloride	ND	0.0050	1	08/13/2014 03:55
Xylenes, Total	ND	0.0050	1	08/13/2014 03:55

Surrogates	REC (%)	Limits	
Dibromofluoromethane	94	70-130	08/13/2014 03:55
Toluene-d8	103	70-130	08/13/2014 03:55
4-BFB	106	70-130	08/13/2014 03:55

CDPH ELAP 1644 ♦ NELAP 4033ORELAP AK Analyst's Initial  Angela Rydelius, Lab Manager

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8021B/8015Bm
Date Prepared:	8/11/14-8/14/14	Unit:	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-5	**1408335-001A**	**Soil**	**08/11/2014 12:45**	**GC19**	**93897**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1200**	200	200	08/12/2014 19:16
MTBE	---	10	200	08/12/2014 19:16
Benzene	---	1.0	200	08/12/2014 19:16
Toluene	---	1.0	200	08/12/2014 19:16
Ethylbenzene	---	1.0	200	08/12/2014 19:16
Xylenes	---	1.0	200	08/12/2014 19:16

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4	
2-Fluorotoluene	640	S	70-130		08/12/2014 19:16

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-7-5	**1408335-002A**	**Soil**	**08/11/2014 13:00**	**GC19**	**93897**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1200**	200	200	08/12/2014 23:16
MTBE	---	10	200	08/12/2014 23:16
Benzene	---	1.0	200	08/12/2014 23:16
Toluene	---	1.0	200	08/12/2014 23:16
Ethylbenzene	---	1.0	200	08/12/2014 23:16
Xylenes	---	1.0	200	08/12/2014 23:16

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4	
2-Fluorotoluene	424	S	70-130		08/12/2014 23:16

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-8-5	**1408335-003A**	**Soil**	**08/11/2014 13:10**	**GC19**	**93897**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**40**	10	10	08/13/2014 19:12
MTBE	---	0.50	10	08/13/2014 19:12
Benzene	---	0.050	10	08/13/2014 19:12
Toluene	---	0.050	10	08/13/2014 19:12
Ethylbenzene	---	0.050	10	08/13/2014 19:12
Xylenes	---	0.050	10	08/13/2014 19:12

Surrogates	REC (%)	Limits	Analytical Comments: d1	
2-Fluorotoluene	98	70-130		08/13/2014 19:12

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW5030B
Date Received:	8/11/14 18:49	Analytical Method:	SW8021B/8015Bm
Date Prepared:	8/11/14-8/14/14	Unit:	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-9-5	**1408335-004A**	**Soil**	**08/11/2014 13:25**	**GC19**	**94016**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1.5**	1.0	1	08/15/2014 18:59
MTBE	---	0.050	1	08/15/2014 18:59
Benzene	---	0.0050	1	08/15/2014 18:59
Toluene	---	0.0050	1	08/15/2014 18:59
Ethylbenzene	---	0.0050	1	08/15/2014 18:59
Xylenes	---	0.0050	1	08/15/2014 18:59

Surrogates	REC (%)	Limits	Analytical Comments: d6	
2-Fluorotoluene	97	70-130		08/15/2014 18:59

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW3050B
Date Received:	8/11/14 18:49	Analytical Method:	SW6020
Date Prepared:	8/11/14	Unit:	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-5	**1408335-001A**	**Soil/TOTAL**	**08/11/2014 12:45**	**ICP-MS2**	**93907**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/12/2014 20:22
Chromium	**56**	0.50	1	08/12/2014 20:22
Lead	**64**	0.50	1	08/12/2014 20:22
Nickel	**53**	0.50	1	08/12/2014 20:22
Zinc	**76**	5.0	1	08/12/2014 20:22
Surrogates	**REC (%)**	**Limits**		
Tb 350.917	109	70-130		08/12/2014 20:22

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-7-5	**1408335-002A**	**Soil/TOTAL**	**08/11/2014 13:00**	**ICP-MS2**	**93907**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/12/2014 20:28
Chromium	**110**	5.0	10	08/15/2014 02:15
Lead	**120**	5.0	10	08/15/2014 02:15
Nickel	**84**	5.0	10	08/15/2014 02:15
Zinc	**95**	5.0	1	08/12/2014 20:28
Surrogates	**REC (%)**	**Limits**		
Tb 350.917	112	70-130		08/12/2014 20:28

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-8-5	**1408335-003A**	**Soil/TOTAL**	**08/11/2014 13:10**	**ICP-MS2**	**93907**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/12/2014 20:34
Chromium	**88**	5.0	10	08/15/2014 02:20
Lead	**190**	5.0	10	08/15/2014 02:20
Nickel	**88**	5.0	10	08/15/2014 02:20
Zinc	**100**	5.0	1	08/12/2014 20:34
Surrogates	**REC (%)**	**Limits**		
Tb 350.917	127	70-130		08/12/2014 20:34

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW3050B
Date Received:	8/11/14 18:49	Analytical Method:	SW6020
Date Prepared:	8/11/14	Unit:	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-9-5	**1408335-004A**	**Soil/TOTAL**	**08/11/2014 13:25**	**ICP-MS2**	**93907**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	08/12/2014 20:41
Chromium	**89**	0.50	1	08/12/2014 20:41
Lead	**30**	0.50	1	08/12/2014 20:41
Nickel	**82**	5.0	10	08/15/2014 02:24
Zinc	**65**	5.0	1	08/12/2014 20:41

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	08/12/2014 20:41

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Analytical Report

Client:	Basics Environmental	WorkOrder:	1408335
Project:	Oakland, CA	Extraction Method:	SW3550B/3630C
Date Received:	8/11/14 18:49	Analytical Method:	SW8015B
Date Prepared:	8/11/14	Unit:	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-5	**1408335-001A**	**Soil**	**08/11/2014 12:45**	**GC2A**	**93906**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**400**	50	50	08/16/2014 22:29

Surrogates	REC (%)	Limits	Analytical Comments: e7,e4,e2	
C9	116	70-130		08/16/2014 22:29

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-7-5	**1408335-002A**	**Soil**	**08/11/2014 13:00**	**GC2A**	**93906**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**180**	50	50	08/16/2014 23:45

Surrogates	REC (%)	Limits	Analytical Comments: e7,e4,e2	
C9	110	70-130		08/16/2014 23:45

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-8-5	**1408335-003A**	**Soil**	**08/11/2014 13:10**	**GC9a**	**93906**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**8.6**	2.0	2	08/18/2014 16:14

Surrogates	REC (%)	Limits	Analytical Comments: e7,e4,e2	
C9	103	70-130		08/18/2014 16:14

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-9-5	**1408335-004A**	**Soil**	**08/11/2014 13:25**	**GC11B**	**93906**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**6.2**	1.0	1	08/17/2014 09:23

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	107	70-130		08/17/2014 09:23

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/12/14	BatchID:	93932
Date Analyzed:	8/12/14	Extraction Method:	SM5520E/F
Instrument:	O&G	Analytical Method:	SM5520E/F
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93932 1408335-004AMS/MSD

QC Summary Report for SM5520E/F

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
POG	ND	1760	50	2000	-	87.8	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
POG	1880	1720	2000	53.33	91.2	83.4	70-130	8.62	30

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/11/14	BatchID:	93910
Date Analyzed:	8/12/14	Extraction Method:	SW5030B
Instrument:	GC10	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93910 1408335-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0382	0.0050	0.050	-	76.5	61-115
Benzene	ND	0.0424	0.0050	0.050	-	84.7	75-126
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.175	0.050	0.20	-	87.4	63-125
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0454	0.0050	0.050	-	90.9	80-118
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0430	0.0040	0.050	-	86	74-121
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0436	0.0040	0.050	-	87.2	68-122
1,1-Dichloroethene	ND	0.0448	0.0050	0.050	-	89.6	65-138
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/11/14	BatchID:	93910
Date Analyzed:	8/12/14	Extraction Method:	SW5030B
Instrument:	GC10	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93910 1408335-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0412	0.0050	0.050	-	82.4	68-117
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0399	0.0050	0.050	-	79.7	67-116
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0395	0.0050	0.050	-	79	66-118
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0461	0.0050	0.050	-	92.1	84-129
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0455	0.0050	0.050	-	90.9	82-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.118	0.122		0.12	95	97	80-120
Toluene-d8	0.135	0.132		0.12	108	106	80-120
4-BFB	0.0137	0.0120		0.012	109	96	80-120

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/11/14	BatchID:	93910
Date Analyzed:	8/12/14	Extraction Method:	SW5030B
Instrument:	GC10	Analytical Method:	SW8260B
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93910 1408335-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0365	0.0376	0.050	ND	73	75.2	70-130	3.04	30
Benzene	0.0376	0.0385	0.050	ND	75.2	77.1	70-130	2.42	30
t-Butyl alcohol (TBA)	0.176	0.177	0.20	ND	87.9	88.4	70-130	0.648	30
Chlorobenzene	0.0410	0.0402	0.050	ND	82	80.4	70-130	1.95	30
1,2-Dibromoethane (EDB)	0.0397	0.0396	0.050	ND	79.4	79.2	70-130	0.239	30
1,2-Dichloroethane (1,2-DCA)	0.0408	0.0413	0.050	ND	81.6	82.7	70-130	1.26	30
1,1-Dichloroethene	0.0337	0.0387	0.050	ND	67.4,F1	77.3	70-130	13.7	30
Diisopropyl ether (DIPE)	0.0374	0.0390	0.050	ND	74.8	78	70-130	4.11	30
Ethyl tert-butyl ether (ETBE)	0.0373	0.0390	0.050	ND	74.6	78	70-130	4.39	30
Methyl-t-butyl ether (MTBE)	0.0381	0.0387	0.050	ND	76.2	77.4	70-130	1.48	30
Toluene	0.0412	0.0407	0.050	ND	82.4	81.4	70-130	1.15	30
Trichloroethene	0.0397	0.0395	0.050	ND	79.4	78.9	70-130	0.619	30
Surrogate Recovery									
Dibromofluoromethane	0.123	0.121	0.12		99	97	70-130	1.70	30
Toluene-d8	0.130	0.132	0.12		104	105	70-130	0.749	30
4-BFB	0.0123	0.0131	0.012		98	105	70-130	6.53	30

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/11/14	BatchID:	93897
Date Analyzed:	8/12/14	Extraction Method:	SW5030B
Instrument:	GC7	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93897 1408325-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.615	0.40	0.60	-	103	70-130
MTBE	ND	0.0760	0.050	0.10	-	76	70-130
Benzene	ND	0.114	0.0050	0.10	-	114	70-130
Toluene	ND	0.108	0.0050	0.10	-	108	70-130
Ethylbenzene	ND	0.115	0.0050	0.10	-	115	70-130
Xylenes	ND	0.344	0.0050	0.30	-	115	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0915	0.114		0.10	91	114	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.569	0.588	0.60	ND	94.8	98	70-130	3.38	20
MTBE	0.0717	0.0716	0.10	ND	71.7	71.5	70-130	0.209	20
Benzene	0.102	0.103	0.10	ND	101	103	70-130	1.71	20
Toluene	0.0973	0.101	0.10	ND	97.3	101	70-130	3.59	20
Ethylbenzene	0.104	0.104	0.10	ND	105	104	70-130	0.0901	20
Xylenes	0.310	0.312	0.30	ND	103	104	70-130	0.750	20
Surrogate Recovery									
2-Fluorotoluene	0.103	0.103	0.10		103	103	70-130	0	20

(Cont.)

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/13/14	BatchID:	94016
Date Analyzed:	8/14/14	Extraction Method:	SW5030B
Instrument:	GC19	Analytical Method:	SW8021B/8015Bm
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-94016 1408456-011AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.555	0.40	0.60	-	92.5	70-130
MTBE	ND	0.0905	0.050	0.10	-	90.5	70-130
Benzene	ND	0.101	0.0050	0.10	-	101	70-130
Toluene	ND	0.102	0.0050	0.10	-	101	70-130
Ethylbenzene	ND	0.101	0.0050	0.10	-	101	70-130
Xylenes	ND	0.322	0.0050	0.30	-	107	70-130
Surrogate Recovery							
2-Fluorotoluene	0.102	0.100		0.10	102	100	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.503	0.505	0.60	ND	83.9	84.1	70-130	0.289	20
MTBE	0.0705	0.0728	0.10	ND	70.5	72.7	70-130	3.12	20
Benzene	0.0961	0.0939	0.10	ND	96.1	93.9	70-130	2.30	20
Toluene	0.0971	0.0944	0.10	ND	97.1	94.4	70-130	2.79	20
Ethylbenzene	0.0971	0.0933	0.10	ND	97.1	93.3	70-130	3.95	20
Xylenes	0.307	0.297	0.30	ND	102	98.9	70-130	3.24	20
Surrogate Recovery									
2-Fluorotoluene	0.0956	0.0925	0.10		96	93	70-130	3.22	20

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/11/14	BatchID:	93907
Date Analyzed:	8/12/14	Extraction Method:	SW3050B
Instrument:	ICP-MS1, ICP-MS2	Analytical Method:	SW6020
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93907 1408333-002BMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	55.7	0.25	50	-	111	75-125
Chromium	ND	59.3	0.50	50	-	119	75-125
Lead	ND	56.8	0.50	50	-	114	75-125
Nickel	ND	61.2	0.50	50	-	122	75-125
Zinc	ND	581	5.0	500	-	116	75-125
Surrogate Recovery							
Tb 350.917	491	554		500	98	111	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	51.4	57.1	50	ND	103	114	75-125	10.5	20
Chromium	NR	NR	50	57.18	NR	NR	75-125	NR	20
Lead	62.2	69.3	50	10.18	104	118	75-125	10.8	20
Nickel	NR	NR	50	90.95	NR	NR	75-125	NR	20
Zinc	603	652	500	74.18	106	116	75-125	7.95	20
Surrogate Recovery									
Tb 350.917	500	557	500		100	111	70-130	10.8	20

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Quality Control Report

Client:	Basics Environmental	WorkOrder:	1408335
Date Prepared:	8/11/14	BatchID:	93906
Date Analyzed:	8/12/14	Extraction Method:	SW3550B/3630C
Instrument:	GC6A	Analytical Method:	SW8015B
Matrix:	Soil	Unit:	mg/Kg
Project:	Oakland, CA	Sample ID:	MB/LCS-93906 1408333-002BMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.0	1.0	40	-	115	70-130
Surrogate Recovery							
C9	23.2	25.1		25	93	100	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	35.4	35.8	40	ND	88.5	89.4	70-130	1.04	30
Surrogate Recovery									
C9	22.6	22.2	25		90	89	70-130	1.41	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1408335 ClientCode: BEO

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

Report to:
Lita Freeman
Basics Environmental
655 12th Street, Suite 126
Oakland, CA 94607
(510) 834-9099 FAX: (510) 834-9098

Email: litafreeman@gmail.com
cc/3rd Party: basics@aol.com; basicsenvironmental@g
PO:
ProjectNo: Oakland, CA

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

Requested TAT: **5 days**

Date Received: 08/11/2014
Date Printed: 08/19/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1408335-001	SB-6-5	Soil	8/11/2014 12:45	☐	A	A	A	A								
1408335-002	SB-7-5	Soil	8/11/2014 13:00	☐	A	A	A	A								
1408335-003	SB-8-5	Soil	8/11/2014 13:10	☐	A	A	A	A								
1408335-004	SB-9-5	Soil	8/11/2014 13:25	☐	A	A	A	A								

Test Legend:

1	5520E_SG_S	2	8260B_S	3	LUFTMS_S	4	TPH(D)WSG_S	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup.

Prepared by: Jena Alfaro

Comments:

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

McCampbell Analytical, Inc.
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1534 Willow Pass Road, Pittsburg, CA 94565-1701
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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: BASICS ENVIRONMENTAL
Project: Oakland, CA
Comments:

QC Level: LEVEL 2
Client Contact: Lita Freeman
Contact's Email: litafreeman@gmail.com

Work Order: 1408335
Date Received: 8/11/2014

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

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1408335-001A	SB-6-5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	8/11/2014 12:45	5 days		☐
			SW6020 (LUFT)			☐		5 days		☐
			SW8260B (VOCs)			☐		5 days		☐
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐
1408335-002A	SB-7-5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	8/11/2014 13:00	5 days		☐
			SW6020 (LUFT)			☐		5 days		☐
			SW8260B (VOCs)			☐		5 days		☐
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐
1408335-003A	SB-8-5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	8/11/2014 13:10	5 days		☐
			SW6020 (LUFT)			☐		5 days		☐
			SW8260B (VOCs)			☐		5 days		☐
			SM5520B (O&G w/ S.G. Clean-Up)			☐		5 days		☐
1408335-004A	SB-9-5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner	☐	8/11/2014 13:25	5 days		☐
			SW6020 (LUFT)			☐		5 days		☐
			SW8260B (VOCs)			☐		5 days		☐

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Acetate Liner = Acetate Liner

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WORK ORDER SUMMARY

Client Name:	BASICS ENVIRONMENTAL	QC Level:	LEVEL 2	Work Order:	1408335
Project:	Oakland, CA	Client Contact:	Lita Freeman	Date Received:	8/11/2014
Comments:		Contact's Email:	litafreeman@gmail.com		

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

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1408335-004A	SB-9-5	Soil	SM5520B (O&G w/ S.G. Clean-Up)	1	Acetate Liner	☐	8/11/2014 13:25	5 days		☐

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Acetate Liner = Acetate Liner

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1408335

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim # ____

Donovan Tom

Report To: Lita Freeman | **Bill To:** Basics Environmental

Company: Basics Environmental
655 12th Street, Suite 126
Oakland, CA 94607

E-Mail: ~~basicsenvironmental@~~ litafreeman@gmail.com

Tele: (916) 677-9897 | **Fax:** ( ) ~~-~~ gmail.com

Project #: | **Project Name:** Oakland, CA

Project Location: Hegenberger Rd | **Purchase Order#**

Sampler Signature: Lita D Freeman

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX/ MTBE & TPH as Gas (8021/ 8015)	TPH as Diesel (8015) WSG	Total Petroleum Oil & Grease (1664 / 5520 E/B&F) WSG	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	BTEX/ MTBE & TPH as Gas (8260)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Metals (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis
SB-6-5	SB6	8/11/14	1245	1					✓							✓	✓	✓							✓				✓			
SB-7-5	SB7	8/11/14	1300	1					✓							✓	✓	✓							✓				✓			
SB-8-5	SB8	8/11/14	1310	1					✓							✓	✓	✓							✓				✓			
SB-9-5	SB9	8/11/14	1325	1					✓							✓	✓	✓							✓				✓			

Analysis Request

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

Relinquished By:	Date:	Time:	Received By:
Lita D Freeman	8/11/14	1820	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° ____
GOOD CONDITION ____
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ____
PRESERVED IN LAB ____

COMMENTS: Quote # 4018

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION ____ pH<2 ____

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Sample Receipt Checklist

Client Name: **Basics Environmental**
Date and Time Received: **8/11/2014 6:49:54 PM**

Project Name: **Oakland, CA**
LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1408335** Matrix: Soil
Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

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

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

Comments: