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May 12, 2017

Mr. Keith Nowell, P.G., C.H.G.  
Hazardous Materials Specialist  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502

Subject: Limited Phase II Environmental Site Assessment Report  
DW Nicholson Property  
24747 Clawiter Road  
Hayward, California 94545  
ACDEH Fuel Leak Case No. RO0003213  
GeoTracker Global ID No. T10000009567

Dear Mr. Nowell:

Basics Environmental, Inc. is pleased to present the enclosed report that Environmental Risk Assessors prepared for the property located at 24747 Clawiter Road in Hayward, California. The report, titled Limited Phase II Environmental Site Assessment Report, DW Nicholson Property, 24747 Clawiter Road, Hayward, California 94545 and dated November 20, 2015, was prepared for Basics Environmental.

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

Should you have any questions concerning the report or need additional information, please call me at (510) 834-9099.

Sincerely,

Basics Environmental, Inc.

A handwritten signature in black ink, appearing to read "Donovan G. Tom", written over a circular scribble.

Donovan G. Tom, E.P. R.E.P.A.  
Principal Consultant

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



Environmental Risk Assessors

## Limited Phase II Environmental Site Assessment Report

DW Nicholson Property  
24747 Clawiter Road  
Hayward, California 94545

November 20, 2015

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

Prepared by:  
Environmental Risk Assessors  
1420 East Roseville Parkway  
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Roseville, CA 95661

ERA Project No. 01-2015-500-005





## Environmental Risk Assessors

November 20, 2015

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

**SUBJECT:** Limited Phase II Environmental Site Assessment  
DW Nicholson Property  
24747 Clawiter Road  
Hayward, California 94545  
ERA Project No. 01-2054-500-005

Dear Mr. Tom,

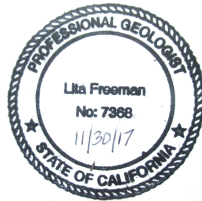
Environmental Risk Assessors (ERA) is pleased to present this Limited Phase II Environmental Site Assessment (ESA) Report for the above referenced property (the Site). Our scope of work and findings are presented in the attached report.

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

Sincerely,

Environmental Risk Assessors

Lita D. Freeman, PG  
Professional Geologist



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## 1. EXECUTIVE SUMMARY

Environmental Risk Assessors (ERA) is pleased to present this Limited Phase II Environmental Site Assessment (ESA) Report (the "Report") for the property located at 24747 Clawiter Road, Hayward, Alameda County, California (the "Site"; Figure 1) to Basics Environmental, Inc. (Basics Environmental). The Site is currently developed with an office building and an industrial building occupied by DW Nicholson, a steel fabricator (Figure 2).

### 1.1 Background

The approximately 4-acre site is improved with a two-story office building and a one-story industrial building divided into a mechanical warehouse, a steel fabrication shop, and an equipment repair shop. A paint storage shed/hazardous waste storage area and two fuel underground storage tanks (USTs) are located west and north, respectively, of the industrial building. Paved parking lots and yards are located on the northern and southern portions of the Site.

Basics Environmental noted the following areas of concern during their Phase I ESA of the Site:

- The area of the USTs;
- The mechanical warehouse/steel fabrication shop;
- The equipment repair shop; and
- The paint/hazardous waste storage area.

### 1.2 Investigation

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

- Advancing borings at six sampling locations: four originally planned sampling locations designated on the Site Plan, Figure 2, as SB-1 (to a depth of 20 feet below ground surface [bgs] west of the USTs), SB-2 (to a depth of 20 feet bgs between the mechanical warehouse and steel fabrication shop), SB-3 (to a depth of 16 feet bgs in the hazardous substance storage area inside the equipment repair shop), and SB-4 (to a depth of 20 feet bgs in the paint/hazardous waste storage area), and two additional sampling locations designated as SB-3a (to a depth of 1.5 feet bgs in close proximity to a parts washing tub inside the equipment repair shop for soil gas sample only) and SB-3b (to a depth of 8 feet near a floor drain inside the equipment repair shop);
- Collecting soil gas samples from sampling locations SB-1, SB-2, SB-3a, and SB-4;
- Collecting soil samples from borings SB-1, SB-2, SB-3, SB-3b, and SB-4;
- Collecting groundwater samples from borings SB-1, SB-2, SB-3, and SB-4;
- Submitting the soil gas samples for volatile organic compounds (VOCs) analysis; the soil and groundwater samples for VOCs and Total Petroleum Hydrocarbons (TPH) quantified as gasoline (TPHg), TPH quantified as diesel (TPHd), TPH quantified as motor oil (TPHmo), TPH quantified as bunker oil (TPHbo), TPH quantified as kerosene (TPHk), TPH quantified as Stoddard solvent (TPHss); and the soil samples for California Assessment Manual 17 (CAM 17) metals analysis; and,
- Preparing this report presenting the results of the Limited Phase II ESA.

### 1.3 Findings

Various VOCs were detected in soil gas at concentrations at or above their respective laboratory reporting limit. 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) indicated that the concentrations of detected VOCs were below their respective ESL.

The VOC 1,1-dichloroethene (1,1-DCE), petroleum hydrocarbons, and various metals were detected in one or more of the soil samples analyzed. Comparison of the analytical results to the ESLs for soil at commercial/industrial land use (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) indicate that the concentrations of detected compounds were below their respective ESL with the exception of arsenic. The arsenic concentrations in soil samples were within natural background levels of up to 12 milligrams per kilogram (mg/kg) for Bay Area soil.

Various VOCs and petroleum hydrocarbons were detected in groundwater samples collected from the Site for analysis. Comparison of the analytical results to the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB, Groundwater Screening Levels (groundwater is a current or potential drinking water resource), Table F-1a, December 2013) indicated that the detected concentrations of VOCs and petroleum hydrocarbons were below their respective ESL except for VOCs in the equipment repair shop area and petroleum hydrocarbons in the paint/hazardous waste storage area.

### 1.4 Conclusions

The results of this Limited Phase II ESA indicated that various VOCs, petroleum hydrocarbons, and metals are present in sub-slab soil gas, soil, and/or groundwater samples collected from the Site. The detected compounds of concern were below applicable ESLs with the exception of VOCs in the equipment repair shop area and petroleum hydrocarbons in the paint/hazardous waste storage area. The presence of VOCs and petroleum hydrocarbons in soil gas, soil, and groundwater indicate a past on-site release.

The concentrations of VOCs in soil gas samples were below applicable ESLs and therefore do not present a vapor intrusion concern for on-site workers under typical work conditions (tasks do not include cutting or coring the concrete floor slab of the building or asphalt pavement areas outside the building).

### 1.5 Recommendations

The detection of VOCs and petroleum hydrocarbons in soil gas, soil, and/or groundwater samples indicates that a release has occurred on site with reported concentrations above applicable ESLs. In accordance with the requirements of the permit issued by the Alameda County Public Works Agency (ACPWA), a copy of this report must be submitted to the ACPWA.

## 2. INTRODUCTION

ERA is pleased to present this Limited Phase II ESA Report for the property located at 24747 Clawiter Road, Hayward, Alameda County, California (Figure 1) to Basics Environmental. The Site

is currently occupied by an office building and an industrial building used for steel fabrication (Figure 2).

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

**2.1 Site Description**

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

Table 1. General Site Information	
<b>Project Name:</b> DW Nicholson Property	<b>Current Development:</b> Office building and industrial building with paved parking lots and yards
<b>Address:</b> 24747 Clawiter Road, Hayward, Alameda County	<b>Occupant:</b> DW Nicholson
<b>Location:</b> Western side of Clawiter Road	

**2.2 Background**

The approximately 4-acre site consists of one rectangular-shaped parcel of land identified by the Alameda County Assessor’s office Assessor Parcel Number (APN) 439-20-3-2.

The Site is improved with a two-story office building and a one-story industrial building divided into a mechanical warehouse, a steel fabrication shop, and an equipment repair shop. A paint storage shed/hazardous waste storage area and two fuel USTs are located west and north, respectively, of the industrial building. Paved parking lots and yards are located on the northern and southern portions of the Site.

According to information obtained by Basics Environmental from subsurface investigation reports, shallow groundwater has been encountered at the Site at depths of approximately 8 to 15 feet bgs and the groundwater flow direction is inferred to be in a southwesterly direction.

**2.3 Objectives and Scope of Work**

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

- Advancing borings at six sampling locations: four originally planned sampling locations designated on the Site Plan, Figure 2, as SB-1 (to a depth of 20 feet bgs west of the USTs), SB-2 (to a depth of 20 feet bgs between the mechanical warehouse and steel fabrication shop), SB-3 (to a depth of 16 feet bgs in the hazardous substance storage area inside the equipment repair shop), and SB-4 (to a depth of 20 feet bgs in the paint/hazardous waste storage area), and two additional sampling locations designated as SB-3a (to a depth of



1.5 feet bgs in close proximity to a parts washing tub inside the equipment repair shop for soil gas sample only) and SB-3b (to a depth of 8 feet near a floor drain inside the equipment repair shop for soil sample only);

- Collecting soil gas samples from sampling locations SB-1, SB-2, SB-3a, and SB-4;
- Collecting soil samples from borings SB-1, SB-2, SB-3, SB-3b, and SB-4;
- Collecting groundwater samples from borings SB-1, SB-2, SB-3, and SB-4;
- Submitting the soil gas samples for VOCs analysis; the soil and groundwater samples for VOCs, TPHg, TPHd, TPHmo, TPHbo, TPHk, and TPHss; and the soil samples for CAM 17 metals analysis; and,
- Preparing this report presenting the results of the Limited Phase II ESA.

## 2.4 Limitations and Exceptions

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

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

The findings presented in this Report apply solely to site conditions existing at the time when ERA's assessment was performed. It must be recognized, however, that a Limited Phase II ESA is conducted for the purpose of evaluating the potential for contamination through limited investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ERA's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. 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 October 12, 2015. The scope of work for this assessment did not include tasks not specifically noted in the proposal, with the exception of advancing two additional borings inside the equipment repair shop.

## Environmental Risk Assessors

### 2.6 User Reliance

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

### 2.7 Qualifications

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

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

## 3. 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."

Based on the past site operations, a potential exists for vapor encroachment, 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.

## Environmental Risk Assessors

### 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 soil boring permits 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. Copies of the approved permits are presented in Appendix B.

Mr. James Yoo of the ACPWA was contacted via telephone on October 29, 2015, to obtain permission to advance one additional soil boring on site. Mr. Yoo verbally approved advancing one additional boring (designated boring SB-3b) inside the equipment repair shop.

### 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. In addition, Cruz Brothers, a private utility locating contractor, cleared each proposed sampling location prior to intrusive field activities. Proposed sampling locations were adjusted, as necessary, to maintain a distance of at least 3 feet from identified underground utilities/structures.

#### 4.2.2 Drilling and Sampling

On October 29 and 30, 2015, ERA personnel provided oversight of a field crew from Cascade Drilling, L.P. (Cascade) of Richmond, California, a California licensed driller, during advancement of the borings using a Geoprobe direct-push drilling rig and installation of soil gas wells. A total of four sub-slab soil gas temporary wells were constructed at select on-site locations (SB-1, SB-2, SB-3a, and SB-4) to collect soil gas samples and five soil borings were advanced at select on-site locations (SB-1, SB-2, SB-3, SB-3b, and SB-4) to collect soil and groundwater samples (Figure 2). The boring locations were selected based on available historical information and site observations, as follows:

- Sampling location SB-1 was placed immediately west of the USTs and boring SB-1 was drilled to a depth of 20 feet bgs;
- Sampling location SB-2 was placed between the mechanical warehouse and steel fabrication shop and boring SB-2 was drilled to a depth of 20 feet bgs;
- Sampling location SB-3 was placed inside the equipment repair shop and boring SB-3 was drilled to a depth of 16 feet bgs;
- Sampling location SB-3a was placed inside the equipment repair shop in close proximity to a parts washing tub (soil gas sample only);

## Environmental Risk Assessors

- Sampling location SB-3b was placed inside the equipment repair shop in close proximity to a floor drain and boring SB-3b was drilled to a depth of 8 feet bgs (soil sample only); and
- Sampling location SB-4 was placed in the paint/hazardous waste storage area and boring SB-4 was drilled to a depth of 20 feet bgs.

Table 2 presents a summary of the sampling and analysis program for this Limited Phase II ESA; the sampling program is summarized as follow:

- Soil gas samples from sampling locations SB-1, SB-2, SB-3a, and SB-4;
- Soil samples from borings SB-1, SB-2, SB-3, SB-3b, and SB-4; and
- Groundwater samples from borings SB-1, SB-2, SB-3, and SB-4.

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

Soil sampling was conducted during drilling using new acetate sleeves. Soil samples were screened in the field with a photoionization detector (PID) and observed for evidence of chemical staining. The soil screening procedures involved measuring approximately 30 grams of soil from a relatively undisturbed soil sample and placing this sample in a sealed zip-lock bag. The container was warmed in the sun for approximately 20 minutes, then the head space within the bag was tested for total organic vapor, measured in parts per million volume (ppmv). Elevated (above background) PID measurements were noted during sampling with the highest PID reading 434 ppmv) in sample SB-3 at 10 feet. However, no evidence of impacted soil (i.e. staining, odors, sheen, etc.) was noted during sampling. The PID results were recorded on the field boring logs which are included in Appendix C.

### 4.2.2.1 Soil Gas Sampling

Soil gas sampling equipment provided by McCampbell Analytical, Inc. (McCampbell Analytical) of Pittsburg, California, and used at each sampling location included a manifold with dual vacuum gauges and regulator, a purge canister containing helium, and an evacuated 1-liter stainless steel Summa canister (to contain the soil gas sample). The 1-liter canister-specific regulators were pre-set to not exceed a flow rate of 150 milliliters per minute (ml/min). Each canister was checked, tested, and certified by McCampbell Analytical for air tightness and proper vacuum prior to shipping. The serial numbers of the manifold, vacuum gauges, and Summa canister used at each sampling location were recorded, along with the initial and final vacuum readings.

The sub-slab soil gas samples were collected from temporary soil gas probes placed through the asphalt pavement (exterior locations) or concrete floor slab (interior locations) to a depth of 12 to 18 inches bgs. Inert nylon tubing was used to connect the sampling port at the bottom of the well to the manifold, which was then connected to the purge can and the Summa canister. The tubing was purged with helium for approximately 2 minutes at each location prior to sampling; the sampling canister was isolated during the purge by keeping the valve in a "Closed" position when the valves were opened on the purge can and on the manifold (between the sampling port and the purge can). The valve on the purge can was then closed and the valve on the sampling canister was opened, thereby placing a vacuum on the sampling port and drawing soil gas into the sampling canister.

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 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.

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

The soil samples were placed on ice and transported under chain-of-custody protocols to the project laboratory by a laboratory-provided courier.

#### 4.2.2.3 Groundwater Sampling

New polyvinyl chloride (PVC) casing (with slotted casing in the lower 10 feet and blank casing from above the slotted casing to the ground surface) was placed in each boring. Groundwater was allowed to flow into the casing at each location for approximately one hour. Approximately one gallon of groundwater was purged from each location prior to collection of groundwater samples in laboratory-provided containers appropriate for the requested analysis.

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

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

After the sampling activities were complete, each boring was backfilled with cement grout and bentonite in accordance with the 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 55-gallon container and left on the Site pending receipt of analytical results. Appropriate off-site disposal options will be presented to the client after evaluation of the analytical results.

### 5. ANALYSIS, RESULTS, AND EVALUATION

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

## 5.1 Soil Gas Analysis and Results

The soil gas samples from borings SB-1, SB-2, SB-3a, and SB-4, 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 the following:

- Benzene was detected in the samples from SB-1 (at a concentration of 37 micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ]), SB-2 (at  $8.2 \mu\text{g}/\text{m}^3$ ), SB-3a (at  $32 \mu\text{g}/\text{m}^3$ ), and SB-4 (at  $12 \mu\text{g}/\text{m}^3$ );
- 1,1-dichloroethene (1,1-DCE) was detected in the samples from SB-1 (at a concentration of  $2.9 \mu\text{g}/\text{m}^3$ ), SB-2 (at  $4.4 \mu\text{g}/\text{m}^3$ ), and SB-3 (at  $4.7 \mu\text{g}/\text{m}^3$ );
- Cis-1,2-dichloroethene (cis-1,2-DCE) was detected in the samples from SB-1 (at a concentration of  $330 \mu\text{g}/\text{m}^3$ ) and SB-3 (at  $1,800 \mu\text{g}/\text{m}^3$ );
- Trans-1,2-dichloroethene (trans-1,2-DCE) was detected in the samples from SB-1 (at a concentration of  $6.1 \mu\text{g}/\text{m}^3$ ) and SB-3 (at  $26 \mu\text{g}/\text{m}^3$ );
- Tetrachloroethene (PCE) was detected in the samples from SB-2 (at a concentration of  $6.0 \mu\text{g}/\text{m}^3$ ) and SB-3 (at  $1,200 \mu\text{g}/\text{m}^3$ );
- Trichloroethene (TCE) was detected in the samples from SB-1 (at a concentration of  $37 \mu\text{g}/\text{m}^3$ ), SB-2 (at a concentration of  $55 \mu\text{g}/\text{m}^3$ ), and SB-3 (at  $160 \mu\text{g}/\text{m}^3$ );
- 1,1,1-trichloroethane (1,1,1-TCA) was detected in the samples from SB-2 (at a concentration of  $350 \mu\text{g}/\text{m}^3$ ), SB-3 (at  $14 \mu\text{g}/\text{m}^3$ ), and SB-4 (at  $11 \mu\text{g}/\text{m}^3$ ); and
- Vinyl chloride (VC) was detected in the samples from SB-1 (at a concentration of  $3.4 \mu\text{g}/\text{m}^3$ ) and SB-3 (at  $5.4 \mu\text{g}/\text{m}^3$ ).

The analytical results for the compounds detected in the soil gas samples are presented in Table 3 and discussed below in Section 5.3.

### 5.1.1 Leak Detection Compound Results

Laboratory analyses of the soil gas samples indicated the leak detection compound 1,1-DFA was not detected in the soil gas samples.

## 5.2 Soil Analysis and Results

The soil samples collected from borings SB-1 (9.5 to 10 foot depth interval), SB-2 (1.5 to 2 foot depth interval), SB-3 (2 to 2.5 foot depth interval), SB-3b (4.5 to 5 foot depth interval), and SB-4 (1.5 to 2 foot depth interval), were submitted for analyses as follows:

- VOCs, including benzene, toluene, ethylbenzene, and xylenes, using U.S. EPA Method 8260B;
- TPHg, TPHd, TPHmo, TPHbo, TPHk, and TPHss using SW8015B without silica gel cleanup; and
- CAM 17 metals using U.S. EPA Method 6000/7000 Series.

VOCs were not detected in the soil samples at concentrations at or above their respective laboratory reporting limit with the exception of cis-1,2-DCE which was detected in sample SB-3-2.5 at a concentration of 0.088 mg/kg (see McCampbell Analytical report in Appendix D).

## Environmental Risk Assessors

Petroleum hydrocarbons were not detected in the soil samples at concentrations at or above their respective laboratory reporting limit with the exception of sample SB-4-2 (see McCampbell Analytical report in Appendix D). Petroleum hydrocarbons were detected in soil sample SB-4-2 (near the paint shed/hazardous waste storage area) as follows:

- TPHd at a concentration of 54 mg/kg;
- TPHmo at a concentration of 230 mg/kg;
- TPHbo at a concentration of 150 mg/kg; and
- TPHk at a concentration of 44 mg/kg.

TPHss was not detected in soil samples at concentrations at or above its' laboratory reporting limit.

Various metals were detected in each of the soil samples analyzed for CAM 17 metals.

The analytical results for the compounds detected in the soil samples are presented in Tables 3 and 4 and discussed below in Section 5.3.

### 5.3 Groundwater Analysis and Results

The groundwater samples collected from borings SB-1, SB-2, SB-3, and SB-4, were submitted for analyses as follows:

- VOCs, including benzene, toluene, ethylbenzene, and xylenes, using U.S. EPA Method 8260B; and
- TPHg, TPHd, TPHmo, TPHbo, TPHk, and TPHss using SW8015B without silica gel cleanup.

Various VOCs were detected in the groundwater samples at concentrations at or above their respective laboratory reporting limit (see McCampbell Analytical report in Appendix D), as follows:

- Acetone was detected in the sample from SB-1 at a concentration of 29 micrograms per liter ( $\mu\text{g/L}$ );
- Cis-1,2-DCE was detected in the samples from SB-1 (at a concentration of 4.1  $\mu\text{g/L}$ ), SB-3 (at 65  $\mu\text{g/L}$ ), and SB-4 (at 1  $\mu\text{g/L}$ );
- Trans-1,2-DCE was detected in the sample from SB-3 (at a concentration of 1.7  $\mu\text{g/L}$ );
- TCE was detected in the samples from SB-1 (at a concentration of 4  $\mu\text{g/L}$ ) and SB-3 (at a concentration of 24  $\mu\text{g/L}$ );
- VC was detected in the sample from SB-3 (at a concentration of 1.6  $\mu\text{g/L}$ ); and
- Trichlorofluoromethane was detected in the samples from SB-1 (at a concentration of 0.63  $\mu\text{g/L}$ ), SB-2 (at 1.1  $\mu\text{g/L}$ ), and SB-4 (at 0.68  $\mu\text{g/L}$ ).

Petroleum hydrocarbons were not detected in the groundwater samples at concentrations at or above their respective laboratory reporting limit with the exception of sample SB-3 and SB-4 (see McCampbell Analytical report in Appendix D) as follows:

- TPHg at SB-3 at a concentration of 92  $\mu\text{g/L}$ ;
- TPHd at SB-4 at a concentration of 260  $\mu\text{g/L}$ ;

## Environmental Risk Assessors

- TPHmo at SB-4 at a concentration of 2,600 µg/L; and
- TPHbo at SB-4 at a concentration of 2,800 µg/L.

TPHk and TPHss were not detected in the groundwater samples at concentrations at or above their respective laboratory reporting limit.

The analytical results for the compounds detected in the groundwater samples are presented in Table 3 and discussed below in Section 5.3.

### 5.4 EVALUATION

The concentrations of compounds of concern detected in soil gas samples were compared to ESLs for potential vapor intrusion as established by the SFBRWQCB (Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Table E-2, December 2013).

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

The concentrations of compounds of concern detected in groundwater samples were compared to the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB, Groundwater Screening Levels [groundwater is a current or potential drinking water resource], Table F-1a, December 2013).

#### 5.4.1 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 the concentrations of detected VOCs were below their respective ESL. ESLs have not been established for all of the detected VOCs (see Table 2).

The ESLs applied to site-specific findings were derived under the assumption that the soil gas investigation includes soil gas samples collected from a variety of depths; therefore, these values are conservative for screening sub-slab values. The purpose of our investigation was to obtain limited data to screen potential impacts to the subsurface from on-site operations and to evaluate potential impacts to human health for on-site workers.

Because detected VOCs concentrations in soil gas were lower than their respective ESLs, the presence of VOCs in soil gas beneath the concrete floor slab of the on-site building does not appear to present a human health risk to the on-site workers from vapor intrusion into the indoor air of the building.

#### 5.4.2 Soil Results Evaluation

Comparison of the analytical results to the ESLs for soil at commercial/industrial land use (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) indicate that the concentrations of detected compounds were below their respective ESL with the exception



of arsenic. The arsenic concentrations in soil samples were within natural background levels of up to 12 mg/kg for Bay Area soil.

ESLs have not been established for all of the detected compounds (see Tables 3 and 4).

#### 5.4.3 Groundwater Results Evaluation

Comparison of the analytical results to the ESLs for groundwater where groundwater is a current or potential drinking water resource (SFBRWQCB, Groundwater Screening Levels (groundwater is a current or potential drinking water resource), Table F-1a, December 2013) indicate that the concentrations of the VOCs cis-1,2-DCE (65 µg/L), TCE (24 µg/L), and VC (1.6 µg/L) detected at SB-3 were above the ESLs of 6 µg/L, 5 µg/L, and 0.5 µg/L, respectively (see Table 3).

In addition, the concentration of TPHg at SB-3 was below its' ESL but that the concentrations of TPHd and TPHmo at SB-4 were above the ESL of 100 µg/L for each (see Table 3).

ESLs have not been established for all of the detected compounds (see Table 3).

## 6. CONCLUSIONS

The results of this Limited Phase II ESA indicate that various VOCs and petroleum hydrocarbons are present in sub-slab soil gas, soil, and/or groundwater samples collected from the Site.

The concentrations of VOCs in soil gas samples were below applicable ESLs and therefore do not present a vapor intrusion concern for on-site workers under typical work conditions (tasks do not include cutting or coring the concrete floor slab of the building or asphalt pavement areas outside the building).

The concentration of the VOC cis-1,2-DCE detected in the soil sample collected from the hazardous substances storage area inside the equipment repair shop and the petroleum hydrocarbon concentrations detected in the soil sample collected from the paint/hazardous waste storage area were below the applicable ESLs. However, the presence of cis-1,2-DCE and petroleum hydrocarbons in shallow soil indicate a past on-site release in these two areas.

The VOCs, including TCE and cis-1,2-DCE, were detected in groundwater in the area of the USTs at concentrations below the applicable ESLs but were present in the area of the equipment repair shop at concentrations above the applicable ESLs. VOCs were not detected in groundwater above applicable ESLs in the paint/hazardous waste storage area; however, petroleum hydrocarbons were detected in this area at concentrations above the applicable ESLs.

## 7. RECOMMENDATIONS

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

## 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.

---. *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.

---. *Environmental Screening Levels, Table F-1a: Groundwater Screening Levels (groundwater is a current or potential drinking water resource)*, Interim Final, December 2013.

SIGNATURES OF ENVIRONMENTAL PROFESSIONAL

Report Prepared By:



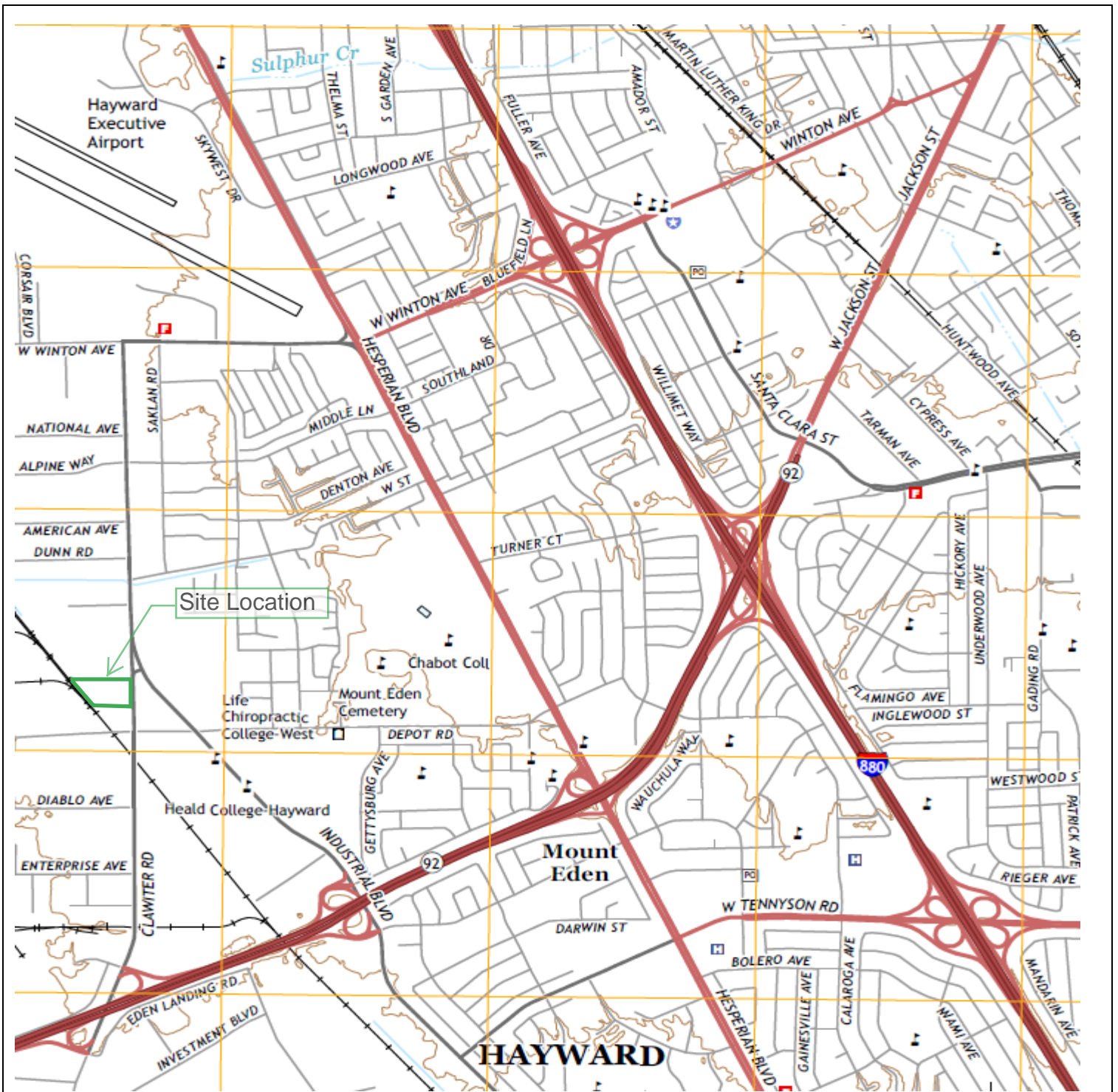
November 20, 2015

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


Date

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

## FIGURES



USGS Hayward, California Quadrangle Topographic Map, 2015

<p>Legend</p>	<p>— Site (boundaries approximate)</p>	 <p>North</p>
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	<p><b>Site Location Map</b></p>	<p>PN: 01-2015-500-005 Date: November 20, 2015</p>
	<p><b>LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT</b> 24747 Clawiter Road, Hayward, California</p>	<p>EP: Lita Freeman <b>Figure 1</b></p>



<p>--- Approximate Property Boundary</p> <p>■ Fuel UST</p> <p>■ Paint Storage Shed</p>	<p>● Sampling Location</p>	<p>0 ↑ North 200</p> <p>Scale (feet, approximate)</p>
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**Site Plan**

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**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**

24747 Clawiter Road, Hayward, California

PN: 01-2015-500-005

Date: November 8, 2015

EP: Lita Freeman

**Figure 2**

## TABLES

**Table 2**  
**Soil Gas Samples Analytical Summary**  
**DW Nicholson Property**  
**24747 Clawiter Road**  
**Hayward California 94545**

Analyte (units: µg/m <sup>3</sup> = micrograms per cubic meter)	Commercial/ Industrial ESL	Sample ID			
		SB-1	SB-2	SB-3a	SB-4
Acetone	140,000,000	<60	<60	<60	130
Benzene	420	37	8.2	32	12
Bromodichloromethane	330	<3.5	<3.5	4	7.3
Bromomethane	22,000	3.4	3.7	2.7	<2
1,3-Butadiene	NE	<1.1	<1.1	2.5	<1.1
MEK	NE	79	<75	<75	<75
Carbon Disulfide	NE	39	2	<1.6	<1.6
Chloroethane	130,000,000	2.3	<1.3	<1.3	<1.3
Chloroform	2,300	34	12	46	56
Chloromethane	390,000	1.8	<1	<1	<1
Cyclohexane	NE	43	<18	26	<18
1,2-Dibromo-3-Chloropropane	6.1	<0.12	0.24	<0.12	<0.12
Dichlorodifluoromethane	NE	<2.5	3.3	4.9	<2.5
1,1-Dichloroethene (1,1-DCE)	880,000	2.9	4.4	4.7	<2
cis-1,2-Dichloroethene (cis-1,2-DCE)	31,000	330	<2	1,800	<2
trans-1,2-Dichloroethene (trans-1,2-DCE)	260,000	6.1	<2	26	<2
Ethylbenzene	4,900	18	6.1	45	31
4-Ethyltoluene	NE	7.3	3.8	17	20
Freon 113	NE	<3.9	98	<3.9	<3.9
Heptane	NE	67	<21	52	<21
Hexane	NE	54	<18	23	<18
2-Hexanone	NE	7	<2.1	<2.1	<2.1
MIBK	NE	26	19	9	9.5
Methylene Chloride	26,000	<8.8	11	<8.8	18
Styrene	3,900,000	<2.2	<2.2	3	<2.2
Tetrachloroethene (PCE)	2,100	<3.4	6	1,200	<3.4
Tetrahydrofuran	NE	<3	<3	<3	5.7
Toluene	1,300,000	110	31	210	97
Trichloroethene (TCE)	3,000	37	55	160	<2.8
1,2,4-Trimethylbenzene	NE	9.5	6	43	51
1,3,5-Trimethylbenzene	NE	4.2	<2.5	15	22
1,1,1-Trichloroethene [1,1,1-TCA]	22,000,000	<2.8	350	14	11
Trichlorofluoromethane	NE	<2.8	340	<2.8	7.1
Vinyl Chloride	160	3.4	<1.3	5.4	<1.3
Xylenes	440,000	88	28	220	160

Volatile Organic Compound (VOCs): soil gas samples were analyzed using U.S. EPA Method TO-15

NE = Not Established

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

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)
SB-1	7509-857	316-680	1015	1025	-30	-4.5
SB-2	6170-756	316-1324	955	1002	-29	-4.5
SB-3a	6407-794	316-828	1047	1053	-30	-4.5
SB-4	7520-868	316-1330	928	935	-28	-4.5



**Table 3**  
**Soil and Groundwater Samples Organics Analytical Summary**  
**DW Nicholson Property**  
**24747 Clawiter Road**  
**Hayward, California 94545**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Petroleum Hydrocarbons (Soil: mg/kg, GW: µg/L)						VOCs <sup>2</sup> (soil: mg/kg, GW: µg/L)					
				TPHg <sup>3</sup>	TPHd <sup>3</sup>	TPHmo <sup>3</sup>	TPHbo <sup>3</sup>	TPHk <sup>3</sup>	TPHss <sup>3</sup>	Acetone	cis-1,2-DCE	trans-1,2-DCE	TCE	Vinyl Chloride	TCFM
<b>ESL for Shallow Soil</b>				500	110	500	NE	110	500	0.5	0.19	0.67	0.46	0.085	NE
Underground Storage Tanks	SB-1-10	9.5 - 10	Soil	<0.25	<1	<5	<5	<1	<1	<0.10	<0.005	<0.005	<0.005	<0.005	<0.005
Shop Interior	SB-2-2	1.5 - 2.0	Soil	<0.25	<1	<5	<5	<1	<1	<0.10	<0.005	<0.005	<0.005	<0.005	<0.005
Equipment Repair Shop	SB-3-2.5	2.0 - 2.5	Soil	<0.25	<1	<5	<5	<1	<1	<0.10	<b>0.088</b>	<0.005	<0.005	<0.005	<0.005
Equipment Repair Shop	SB-3b-5	4.5 - 5.0	Soil	NA	<1	<5	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005
Paint Storage	SB-4-2.0	1.5 - 2.0	Soil	<0.25	<b>54</b>	<b>230</b>	<b>150</b>	<b>44</b>	<1	<0.10	<0.005	<0.005	<0.005	<0.005	<0.005
<b>ESL for Groundwater</b>					100	100	NE	100	100	1,500	6	10	5	0.5	NE
Underground Storage Tanks	SB-1-W	NA	Ground-water	<50	<50	<250	<100	<50	<50	<10	<b>4.1</b>	<0.5	<b>4</b>	<0.5	<b>0.63</b>
Shop Interior	SB-2-W	NA	Ground-water	<50	<50	<250	<100	<50	<50	<10	<0.5	<0.5	<0.5	<0.5	<b>1.1</b>
Equipment Repair Shop	SB-3-W	NA	Ground-water	<b>92</b>	<50	<250	<100	<50	<50	<25	<b>65</b>	<b>1.7</b>	<b>24</b>	<b>1.6</b>	<1.2
Paint Storage	SB-4-W	NA	Ground-water	<50	<b>260</b>	<b>2,600</b>	<b>2,800</b>	<250	<50	29	<b>1</b>	<0.5	<0.5	<0.5	<b>0.68</b>

**Notes:**

- bgs = below ground surface
  - Volatile Organic Compound (VOCs) were analyzed using U.S. EPA Method 8260B.
  - TPHg, TPHd, TPHmo, TPHbo, TPHk, TPHss = Total petroleum hydrocarbons (TPH) quantified as gasoline analyzed by U.S. EPA Method 8260; TPH quantified as diesel, TPH quantified as motor oil, TPH quantified as bunker oil, TPH quantified as kerosene, and TPH quantified as Stoddard Solvent were analyzed using U.S. EPA Method 8015B/C.
  - California Assessment Manual 17 (CAM 17) metals were analyzed using U.S. EPA Method 6010B.
- ESL for Shallow Soil = Environmental Screening Levels for shallow soil as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Shallow Soil Screening Levels (<3 m bgs) Commercial/Industrial Land Use (groundwater is a current or potential drinking water resource), Table A-2, December 2013).
- ESL for Groundwater = Environmental Screening Levels for groundwater as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, Groundwater Screening Levels (groundwater is a current or potential drinking water resource), Table F-1a, December 2013).
- Units: mg/kg = milligrams per kilogram, µg/kg = micrograms per kilogram, mg/L = milligrams per liter, µg/L = micrograms per liter
- ND = Not detected  
 <10 = Not detected at stated concentration  
**Bold** = Compound detected  
**Bold** = Compound detected above ESL

**Table 4**  
**Soil Samples Inorganics Analytical Summary**  
**DW Nicholson Property**  
**24747 Clawiter Road**  
**Hayward, California 94545**

On-Site Location/ Comments	Sample ID	Sample Depth (feet bgs) <sup>1</sup>	Matrix	Metals (soil: mg/kg, GW: µg/L)																
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>ESL for Shallow Soil</b>				40	1.6	1,500	8	12	2,500	80	230	320	10	40	150	10	40	10	200	600
Underground Storage Tanks	SB-1-10	9.5 - 10	Soil	<0.5	<b>4.4</b>	<b>120</b>	<0.5	<0.25	<b>34</b>	<b>6.3</b>	<b>14</b>	<b>4.4</b>	<0.05	<0.5	<b>38</b>	<0.5	<0.5	<0.5	<b>30</b>	<b>36</b>
Shop Interior	SB-2-2	1.5 - 2.0	Soil	<0.5	<b>8</b>	<b>190</b>	<b>0.68</b>	<b>0.27</b>	<b>59</b>	<b>17</b>	<b>29</b>	<b>9.6</b>	<b>&lt;0.05</b>	<b>0.77</b>	<b>86</b>	<0.5	<0.5	<0.5	<b>52</b>	<b>64</b>
Equipment Repair Shop	SB-3-2.5	2.0 - 2.5	Soil	<b>0.58</b>	<b>9.5</b>	<b>190</b>	<b>0.64</b>	<0.25	<b>58</b>	<b>10</b>	<b>34</b>	<b>12</b>	<0.05	<0.5	<b>61</b>	<0.5	<0.5	<0.5	<b>52</b>	<b>64</b>
Paint Storage	SB-4-2.0	1.5 - 2.0	Soil	<0.5	<b>4.9</b>	<b>200</b>	<b>0.66</b>	<b>0.3</b>	<b>57</b>	<b>11</b>	<b>33</b>	<b>21</b>	<b>&lt;0.05</b>	<b>&lt;0.5</b>	<b>62</b>	<0.5	<0.5	<0.5	<b>46</b>	<b>80</b>

**Notes:**

1. bgs = below ground surface

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

Units: mg/kg = milligrams per kilogram

ND = Not detected

<10 = Not detected at stated concentration

**Bold** = Compound detected

**Bold** = Compound detected above ESL

## **Appendix A**

Site Photographs

Photographic Log  
24747 Clawiter Road  
Hayward, California 94545  
ERA Project No. 01-2015-500-005

**Photograph: 1**

**Description:**

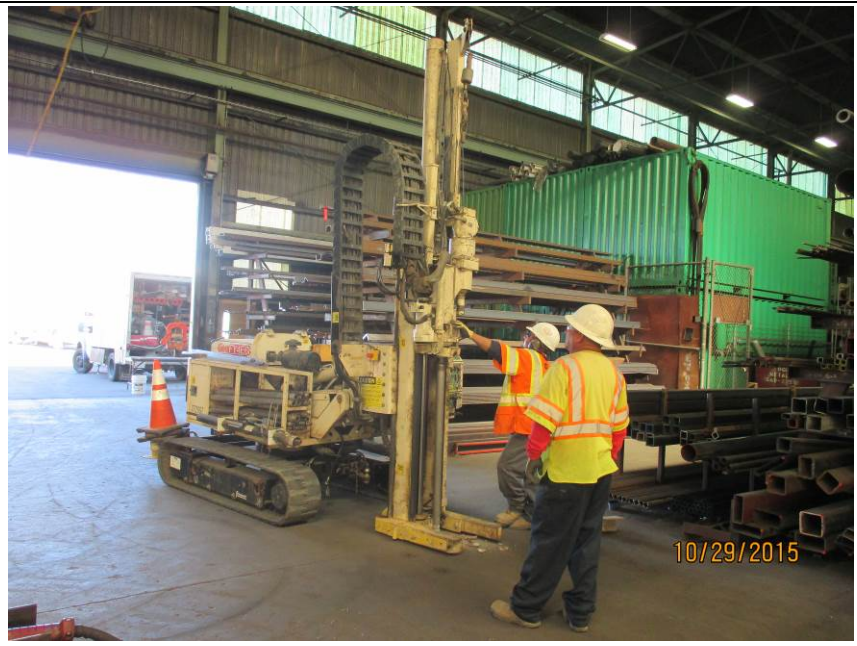
Photo depicts the sampling at boring SB-1 (west of fuel USTs). Steel fabrication shop inside on-site industrial building is in background of photo.



**Photograph: 2**

**Description:**

Photo depicts sampling location SB-2 between mechanical warehouse and steel fabrication shop.

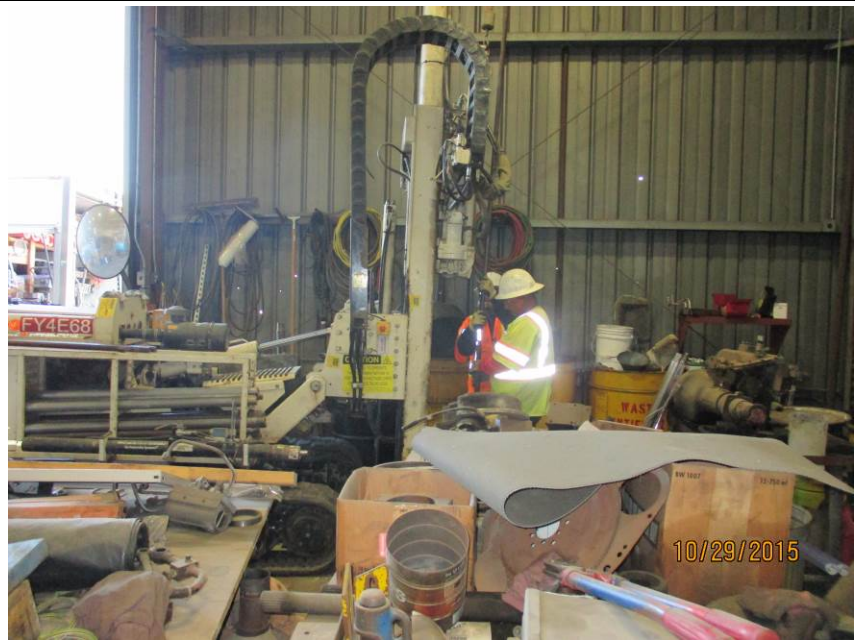


Photographic Log  
24747 Clawiter Road  
Hayward, California 94545  
ERA Project No. 01-2015-500-005

**Photograph: 3**

**Description:**

Photo depicts sampling location SB-3 within the equipment repair shop. Note hazardous substances drums in background.



**Photograph: 4**

**Description:**

Photo depicts set up for groundwater sampling at location SB-4 (paint/hazardous waste storage area).

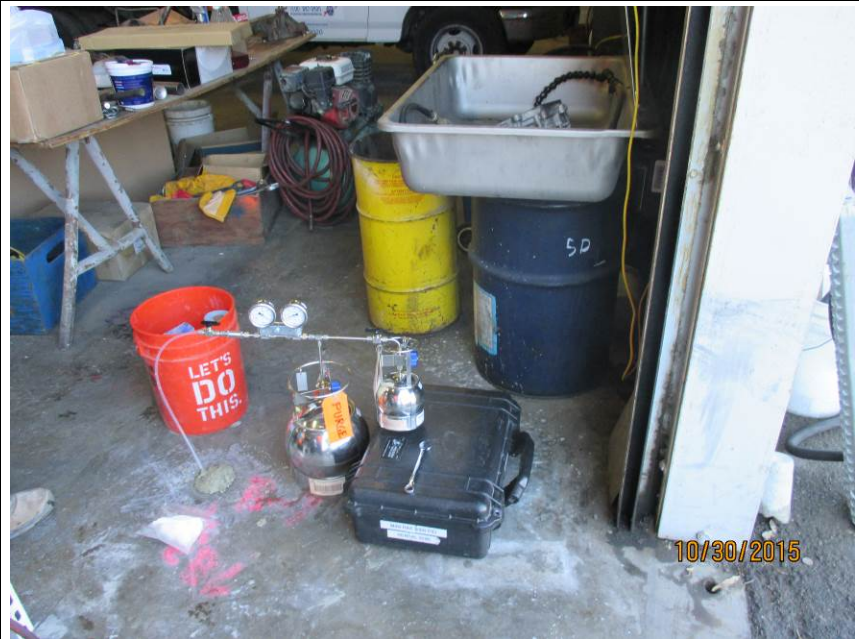


Photographic Log  
24747 Clawiter Road  
Hayward, California 94545  
ERA Project No. 01-2015-500-005

**Photograph: 5**

**Description:**

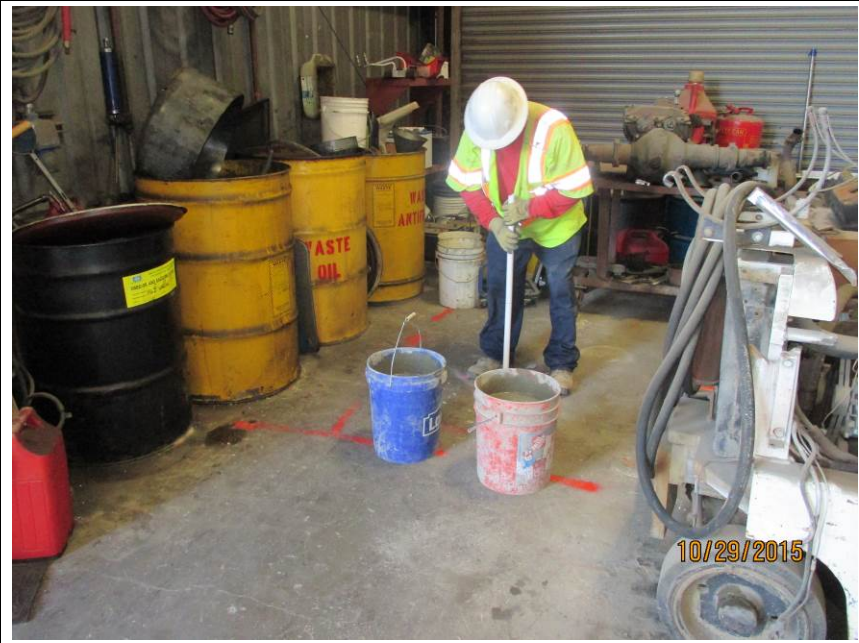
Photo depicts soil gas sampling set up at sampling location SB-3a (inside equipment repair shop near parts washing tub).



**Photograph: 6**

**Description:**

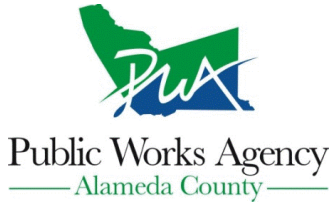
Photo depicts removal of PVC casing used for groundwater sampling at sampling location SB-3.



**Appendix B**

Soil Boring Permits

# Alameda County Public Works Agency - Water Resources Well Permit



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

**Application Approved on: 10/20/2015 By jamesy**

**Permit Numbers: W2015-0987**  
**Permits Valid from 10/26/2015 to 10/27/2015**

**Application Id:** 1444759448964  
**Site Location:** 24747 Clawiter Road, Hayward, CA  
**Project Start Date:** 10/26/2015  
**Assigned Inspector:** Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

**City of Project Site:** Hayward

**Completion Date:** 10/27/2015

**Applicant:** Basics Environmental - Lita Freeman  
655 12th Street, Suite 126, Oakland, CA 94607  
**Property Owner:** Cliff Schuch (DW Nicholson Corp)  
24747 Clawiter Road, Hayward, CA 94545  
**Client:** \*\* same as Property Owner \*\*  
**Contact:** Lita Freeman

**Phone:** 510-834-9099  
**Phone:** 510-887-0900  
**Phone:** 916-677-9897  
**Cell:** --

<b>Receipt Number: WR2015-0530</b>	<b>Total Due:</b>	\$265.00
<b>Payer Name : Lita D Freeman</b>	<b>Total Amount Paid:</b>	\$265.00
	Paid By: VISA	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 4 Boreholes  
Driller: Vironex - Lic #: 705927 - Method: DP

**Work Total: \$265.00**

**Specifications**

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0987	10/20/2015	01/24/2016	4	1.50 in.	25.00 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. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or



## Alameda County Public Works Agency - Water Resources Well Permit

waterways or be allowed to move off the property where work is being completed.

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

7. 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.

8. 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.

9. 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: 24747 Clawter Road, Hayward, California

# Log of Boring

SB-1

PAGE 1 OF 1

Boring location: See Figure 2

Logged by:

Date started: 10/29/15

Date finished: 10/29/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES					LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>									
							Ground Surface Elevation: --__ feet <sup>2</sup>						
1							Asphalt and Baserock - surface to 1 foot Sandy						
2	180						Silty Clay (CH), Black (N 2.5), high plasticity, stiff, dry						
3													
4													
5	60.2						Clayey Silt (ML), Brown (7.5 YR 4/6), low plasticity, stiff, dry						
6													
7													
8													
9													
10	375												
11													
12													
13													
14													
15	276												
16							- groundwater at 16 feet						
17													
18													
19	270												
20													
21							Bottom of Boring = 20 feet						
22													
23													
24													
25													
26													
27													
28													
29													
30													

Boring terminated at a depth of 20 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of 16 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2015-500-005

Figure: C-1

PROJECT: 24747 Clawiter Road, Hayward, California

# Log of Boring SB-2

Boring location: See Figure 2

Logged by:

Date started: 10/29/15

Date finished: 10/29/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES					LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>									
							Ground Surface Elevation: -- __ feet <sup>2</sup>						
1							Concrete - surface to 1.5 foot						
2	325						Silty Clay (CH), Black (N 2.5), high plasticity, stiff, dry						
3													
4													
5	274												
6													
7							Clayey Silt (ML), Brown (7.5 YR 4/6), low plasticity, stiff, dry						
8													
9													
10	194												
11													
12							- moist at 12 feet						
13							- groundwater at 13 to 14 feet						
14							- some fine-grained sand between 14 and 14.5 feet						
15	208												
16													
17													
18													
19													
20													
21							Bottom of Boring = 20 feet						
22													
23													
24													
25													
26													
27													
28													
29													
30													

Boring terminated at a depth of 20 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of 13 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2015-500-005

Figure: C-2

PROJECT: 24747 Clawiter Road, Hayward, California

# Log of Boring

SB-3

PAGE 1 OF 1

Boring location: See Figure 2

Logged by:

Date started: 10/29/15

Date finished: 10/29/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES				LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>								
						Ground Surface Elevation: --__ feet <sup>2</sup>						
1						Concrete - surface to 0.5 foot Baserock - 0.5 to 1.5 feet						
2	332					Silty Clay (CH), Black (N 2.5), high plasticity, stiff, dry						
3												
4												
5	382											
6												
7												
8												
9						Clayey Silt (ML), Brown (7.5 YR 4/6), low plasticity, stiff, dry						
10	434											
11												
12												
13						- moist at 12.5 feet - groundwater at 13 feet						
14												
15	430											
16						Bottom of Boring = 16 feet						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

Boring terminated at a depth of 16 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of 13 feet during drilling.



Environmental Risk Assessors

Project No.:  
01-2015-500-005

Figure: C-3

PROJECT: 24747 Clawiter Road, Hayward, California

# Log of Boring SB-3b

Boring location: See Figure 2

Logged by:

Date started: 10/29/15

Date finished: 10/29/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES					LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>									
							Ground Surface Elevation: -- feet <sup>2</sup>						
1							Concrete - surface to 0.5 foot Basereck - 0.5 to 1.5 feet						
2							Silty Clay (CH), Black (N 2.5), high plasticity, stiff, dry						
3													
4													
5													
6													
7													
8	237												
9							Bottom of Boring = 8 feet						
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

Boring terminated at a depth of 8 feet below ground surface. Boring backfilled with cement grout.  
Groundwater encountered at a depth of NA feet during drilling.



Environmental Risk Assessors

Project No.: 01-2015-500-005

Figure: C-3b

PROJECT: 24747 Clawiter Road, Hayward, California

# Log of Boring SB-4

Boring location: See Figure 2

Logged by:

Date started: 10/29/15

Date finished: 10/29/15

Lita Freeman

Drilling method: Direct Push

Hammer weight/drop: NA

Hammer type: NA

## LABORATORY TEST DATA

Sampler: Fernando-Cascade/Lita Freeman-ERA

DEPTH (feet)	SAMPLES					LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	PID (ppmv)	Sample	Blows/ 6"	SPT N-Value <sup>1</sup>									
							Ground Surface Elevation: --__ feet <sup>2</sup>						
1							Asphalt - surface to 3 inches, Baserock - 3 inches to 1 foot						
2	107						Silty Clay (CH), Black (N 2.5), high plasticity, stiff, dry						
3													
4													
5	308												
6							Clayey Silt (ML), Brown (7.5 YR 4/6), low plasticity, stiff, dry						
7													
8													
9													
10	268												
11													
12						- groundwater at 16 feet							
13													
14													
15	105												
16													
17													
18													
19	149												
20							Bottom of Boring = 20 feet						
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

Boring terminated at a depth of 20 feet below ground surface.  
 Boring backfilled with cement grout.  
 Groundwater encountered at a depth of 16 feet during drilling.



Environmental Risk Assessors

Project No.: 01-2015-500-005

Figure: C-4

## **Appendix D**

Laboratory Analytical Report and  
Chain-of-Custody Documentation





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1510A89

**Report Created for:** Basics Environmental

655 12th Street, Suite 126  
Oakland, CA 94607

**Project Contact:** Donovan Tom

**Project P.O.:**

**Project Name:** DW Nicholson

**Project Received:** 10/29/2015

Analytical Report reviewed & approved for release on 11/04/2015 by:

Angela Rydelius,  
Laboratory Manager

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





## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** DW Nicholson  
**WorkOrder:** 1510A89

### Glossary Abbreviation

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

### Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant



## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** DW Nicholson  
**WorkOrder:** 1510A89

### Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.  
F8 MS/MSD recovery and/or RPD was out of acceptance criteria; PDS validated the prep batch. If PDS recovery was out of acceptance criteria, DLT validated the prep batch.



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/03/2015 14:02
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/03/2015 14:02
Benzene	ND	0.0050	1	11/03/2015 14:02
Bromobenzene	ND	0.0050	1	11/03/2015 14:02
Bromochloromethane	ND	0.0050	1	11/03/2015 14:02
Bromodichloromethane	ND	0.0050	1	11/03/2015 14:02
Bromoform	ND	0.0050	1	11/03/2015 14:02
Bromomethane	ND	0.0050	1	11/03/2015 14:02
2-Butanone (MEK)	ND	0.020	1	11/03/2015 14:02
t-Butyl alcohol (TBA)	ND	0.050	1	11/03/2015 14:02
n-Butyl benzene	ND	0.0050	1	11/03/2015 14:02
sec-Butyl benzene	ND	0.0050	1	11/03/2015 14:02
tert-Butyl benzene	ND	0.0050	1	11/03/2015 14:02
Carbon Disulfide	ND	0.0050	1	11/03/2015 14:02
Carbon Tetrachloride	ND	0.0050	1	11/03/2015 14:02
Chlorobenzene	ND	0.0050	1	11/03/2015 14:02
Chloroethane	ND	0.0050	1	11/03/2015 14:02
Chloroform	ND	0.0050	1	11/03/2015 14:02
Chloromethane	ND	0.0050	1	11/03/2015 14:02
2-Chlorotoluene	ND	0.0050	1	11/03/2015 14:02
4-Chlorotoluene	ND	0.0050	1	11/03/2015 14:02
Dibromochloromethane	ND	0.0050	1	11/03/2015 14:02
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/03/2015 14:02
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/03/2015 14:02
Dibromomethane	ND	0.0050	1	11/03/2015 14:02
1,2-Dichlorobenzene	ND	0.0050	1	11/03/2015 14:02
1,3-Dichlorobenzene	ND	0.0050	1	11/03/2015 14:02
1,4-Dichlorobenzene	ND	0.0050	1	11/03/2015 14:02
Dichlorodifluoromethane	ND	0.0050	1	11/03/2015 14:02
1,1-Dichloroethane	ND	0.0050	1	11/03/2015 14:02
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/03/2015 14:02
1,1-Dichloroethene	ND	0.0050	1	11/03/2015 14:02
cis-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 14:02
trans-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 14:02
1,2-Dichloropropane	ND	0.0050	1	11/03/2015 14:02
1,3-Dichloropropane	ND	0.0050	1	11/03/2015 14:02
2,2-Dichloropropane	ND	0.0050	1	11/03/2015 14:02

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/03/2015 14:02
cis-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 14:02
trans-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 14:02
Diisopropyl ether (DIPE)	ND	0.0050	1	11/03/2015 14:02
Ethylbenzene	ND	0.0050	1	11/03/2015 14:02
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/03/2015 14:02
Freon 113	ND	0.0050	1	11/03/2015 14:02
Hexachlorobutadiene	ND	0.0050	1	11/03/2015 14:02
Hexachloroethane	ND	0.0050	1	11/03/2015 14:02
2-Hexanone	ND	0.0050	1	11/03/2015 14:02
Isopropylbenzene	ND	0.0050	1	11/03/2015 14:02
4-Isopropyl toluene	ND	0.0050	1	11/03/2015 14:02
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/03/2015 14:02
Methylene chloride	ND	0.0050	1	11/03/2015 14:02
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/03/2015 14:02
Naphthalene	ND	0.0050	1	11/03/2015 14:02
n-Propyl benzene	ND	0.0050	1	11/03/2015 14:02
Styrene	ND	0.0050	1	11/03/2015 14:02
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 14:02
1,1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 14:02
Tetrachloroethene	ND	0.0050	1	11/03/2015 14:02
Toluene	ND	0.0050	1	11/03/2015 14:02
1,2,3-Trichlorobenzene	ND	0.0050	1	11/03/2015 14:02
1,2,4-Trichlorobenzene	ND	0.0050	1	11/03/2015 14:02
1,1,1-Trichloroethane	ND	0.0050	1	11/03/2015 14:02
1,1,2-Trichloroethane	ND	0.0050	1	11/03/2015 14:02
Trichloroethene	ND	0.0050	1	11/03/2015 14:02
Trichlorofluoromethane	ND	0.0050	1	11/03/2015 14:02
1,2,3-Trichloropropane	ND	0.0050	1	11/03/2015 14:02
1,2,4-Trimethylbenzene	ND	0.0050	1	11/03/2015 14:02
1,3,5-Trimethylbenzene	ND	0.0050	1	11/03/2015 14:02
Vinyl Chloride	ND	0.0050	1	11/03/2015 14:02
Xylenes, Total	ND	0.0050	1	11/03/2015 14:02

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	107	70-130		11/03/2015 14:02
Toluene-d8	84	70-130		11/03/2015 14:02
4-BFB	113	70-130		11/03/2015 14:02
Benzene-d6	93	60-140		11/03/2015 14:02
Ethylbenzene-d10	88	60-140		11/03/2015 14:02
1,2-DCB-d4	76	60-140		11/03/2015 14:02

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	GC18	112202
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	11/03/2015 14:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/03/2015 14:40	
Benzene	ND	0.0050	1	11/03/2015 14:40	
Bromobenzene	ND	0.0050	1	11/03/2015 14:40	
Bromochloromethane	ND	0.0050	1	11/03/2015 14:40	
Bromodichloromethane	ND	0.0050	1	11/03/2015 14:40	
Bromoform	ND	0.0050	1	11/03/2015 14:40	
Bromomethane	ND	0.0050	1	11/03/2015 14:40	
2-Butanone (MEK)	ND	0.020	1	11/03/2015 14:40	
t-Butyl alcohol (TBA)	ND	0.050	1	11/03/2015 14:40	
n-Butyl benzene	ND	0.0050	1	11/03/2015 14:40	
sec-Butyl benzene	ND	0.0050	1	11/03/2015 14:40	
tert-Butyl benzene	ND	0.0050	1	11/03/2015 14:40	
Carbon Disulfide	ND	0.0050	1	11/03/2015 14:40	
Carbon Tetrachloride	ND	0.0050	1	11/03/2015 14:40	
Chlorobenzene	ND	0.0050	1	11/03/2015 14:40	
Chloroethane	ND	0.0050	1	11/03/2015 14:40	
Chloroform	ND	0.0050	1	11/03/2015 14:40	
Chloromethane	ND	0.0050	1	11/03/2015 14:40	
2-Chlorotoluene	ND	0.0050	1	11/03/2015 14:40	
4-Chlorotoluene	ND	0.0050	1	11/03/2015 14:40	
Dibromochloromethane	ND	0.0050	1	11/03/2015 14:40	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/03/2015 14:40	
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/03/2015 14:40	
Dibromomethane	ND	0.0050	1	11/03/2015 14:40	
1,2-Dichlorobenzene	ND	0.0050	1	11/03/2015 14:40	
1,3-Dichlorobenzene	ND	0.0050	1	11/03/2015 14:40	
1,4-Dichlorobenzene	ND	0.0050	1	11/03/2015 14:40	
Dichlorodifluoromethane	ND	0.0050	1	11/03/2015 14:40	
1,1-Dichloroethane	ND	0.0050	1	11/03/2015 14:40	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/03/2015 14:40	
1,1-Dichloroethene	ND	0.0050	1	11/03/2015 14:40	
cis-1,2-Dichloroethene	<b>0.088</b>	0.0050	1	11/03/2015 14:40	
trans-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 14:40	
1,2-Dichloropropane	ND	0.0050	1	11/03/2015 14:40	
1,3-Dichloropropane	ND	0.0050	1	11/03/2015 14:40	
2,2-Dichloropropane	ND	0.0050	1	11/03/2015 14:40	

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	GC18	112202
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	11/03/2015 14:40	
cis-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 14:40	
trans-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 14:40	
Diisopropyl ether (DIPE)	ND	0.0050	1	11/03/2015 14:40	
Ethylbenzene	ND	0.0050	1	11/03/2015 14:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/03/2015 14:40	
Freon 113	ND	0.0050	1	11/03/2015 14:40	
Hexachlorobutadiene	ND	0.0050	1	11/03/2015 14:40	
Hexachloroethane	ND	0.0050	1	11/03/2015 14:40	
2-Hexanone	ND	0.0050	1	11/03/2015 14:40	
Isopropylbenzene	ND	0.0050	1	11/03/2015 14:40	
4-Isopropyl toluene	ND	0.0050	1	11/03/2015 14:40	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/03/2015 14:40	
Methylene chloride	ND	0.0050	1	11/03/2015 14:40	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/03/2015 14:40	
Naphthalene	ND	0.0050	1	11/03/2015 14:40	
n-Propyl benzene	ND	0.0050	1	11/03/2015 14:40	
Styrene	ND	0.0050	1	11/03/2015 14:40	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 14:40	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 14:40	
Tetrachloroethene	ND	0.0050	1	11/03/2015 14:40	
Toluene	ND	0.0050	1	11/03/2015 14:40	
1,2,3-Trichlorobenzene	ND	0.0050	1	11/03/2015 14:40	
1,2,4-Trichlorobenzene	ND	0.0050	1	11/03/2015 14:40	
1,1,1-Trichloroethane	ND	0.0050	1	11/03/2015 14:40	
1,1,2-Trichloroethane	ND	0.0050	1	11/03/2015 14:40	
Trichloroethene	ND	0.0050	1	11/03/2015 14:40	
Trichlorofluoromethane	ND	0.0050	1	11/03/2015 14:40	
1,2,3-Trichloropropane	ND	0.0050	1	11/03/2015 14:40	
1,2,4-Trimethylbenzene	ND	0.0050	1	11/03/2015 14:40	
1,3,5-Trimethylbenzene	ND	0.0050	1	11/03/2015 14:40	
Vinyl Chloride	ND	0.0050	1	11/03/2015 14:40	
Xylenes, Total	ND	0.0050	1	11/03/2015 14:40	

(Cont.)





# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	107	70-130		11/03/2015 14:40
Toluene-d8	84	70-130		11/03/2015 14:40
4-BFB	115	70-130		11/03/2015 14:40
Benzene-d6	97	60-140		11/03/2015 14:40
Ethylbenzene-d10	91	60-140		11/03/2015 14:40
1,2-DCB-d4	77	60-140		11/03/2015 14:40

Analyst(s): KF



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/03/2015 15:18
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/03/2015 15:18
Benzene	ND	0.0050	1	11/03/2015 15:18
Bromobenzene	ND	0.0050	1	11/03/2015 15:18
Bromochloromethane	ND	0.0050	1	11/03/2015 15:18
Bromodichloromethane	ND	0.0050	1	11/03/2015 15:18
Bromoform	ND	0.0050	1	11/03/2015 15:18
Bromomethane	ND	0.0050	1	11/03/2015 15:18
2-Butanone (MEK)	ND	0.020	1	11/03/2015 15:18
t-Butyl alcohol (TBA)	ND	0.050	1	11/03/2015 15:18
n-Butyl benzene	ND	0.0050	1	11/03/2015 15:18
sec-Butyl benzene	ND	0.0050	1	11/03/2015 15:18
tert-Butyl benzene	ND	0.0050	1	11/03/2015 15:18
Carbon Disulfide	ND	0.0050	1	11/03/2015 15:18
Carbon Tetrachloride	ND	0.0050	1	11/03/2015 15:18
Chlorobenzene	ND	0.0050	1	11/03/2015 15:18
Chloroethane	ND	0.0050	1	11/03/2015 15:18
Chloroform	ND	0.0050	1	11/03/2015 15:18
Chloromethane	ND	0.0050	1	11/03/2015 15:18
2-Chlorotoluene	ND	0.0050	1	11/03/2015 15:18
4-Chlorotoluene	ND	0.0050	1	11/03/2015 15:18
Dibromochloromethane	ND	0.0050	1	11/03/2015 15:18
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/03/2015 15:18
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/03/2015 15:18
Dibromomethane	ND	0.0050	1	11/03/2015 15:18
1,2-Dichlorobenzene	ND	0.0050	1	11/03/2015 15:18
1,3-Dichlorobenzene	ND	0.0050	1	11/03/2015 15:18
1,4-Dichlorobenzene	ND	0.0050	1	11/03/2015 15:18
Dichlorodifluoromethane	ND	0.0050	1	11/03/2015 15:18
1,1-Dichloroethane	ND	0.0050	1	11/03/2015 15:18
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/03/2015 15:18
1,1-Dichloroethene	ND	0.0050	1	11/03/2015 15:18
cis-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 15:18
trans-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 15:18
1,2-Dichloropropane	ND	0.0050	1	11/03/2015 15:18
1,3-Dichloropropane	ND	0.0050	1	11/03/2015 15:18
2,2-Dichloropropane	ND	0.0050	1	11/03/2015 15:18

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/03/2015 15:18
cis-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 15:18
trans-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 15:18
Diisopropyl ether (DIPE)	ND	0.0050	1	11/03/2015 15:18
Ethylbenzene	ND	0.0050	1	11/03/2015 15:18
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/03/2015 15:18
Freon 113	ND	0.0050	1	11/03/2015 15:18
Hexachlorobutadiene	ND	0.0050	1	11/03/2015 15:18
Hexachloroethane	ND	0.0050	1	11/03/2015 15:18
2-Hexanone	ND	0.0050	1	11/03/2015 15:18
Isopropylbenzene	ND	0.0050	1	11/03/2015 15:18
4-Isopropyl toluene	ND	0.0050	1	11/03/2015 15:18
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/03/2015 15:18
Methylene chloride	ND	0.0050	1	11/03/2015 15:18
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/03/2015 15:18
Naphthalene	ND	0.0050	1	11/03/2015 15:18
n-Propyl benzene	ND	0.0050	1	11/03/2015 15:18
Styrene	ND	0.0050	1	11/03/2015 15:18
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 15:18
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 15:18
Tetrachloroethene	ND	0.0050	1	11/03/2015 15:18
Toluene	ND	0.0050	1	11/03/2015 15:18
1,2,3-Trichlorobenzene	ND	0.0050	1	11/03/2015 15:18
1,2,4-Trichlorobenzene	ND	0.0050	1	11/03/2015 15:18
1,1,1-Trichloroethane	ND	0.0050	1	11/03/2015 15:18
1,1,2-Trichloroethane	ND	0.0050	1	11/03/2015 15:18
Trichloroethene	ND	0.0050	1	11/03/2015 15:18
Trichlorofluoromethane	ND	0.0050	1	11/03/2015 15:18
1,2,3-Trichloropropane	ND	0.0050	1	11/03/2015 15:18
1,2,4-Trimethylbenzene	ND	0.0050	1	11/03/2015 15:18
1,3,5-Trimethylbenzene	ND	0.0050	1	11/03/2015 15:18
Vinyl Chloride	ND	0.0050	1	11/03/2015 15:18
Xylenes, Total	ND	0.0050	1	11/03/2015 15:18

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# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	108	70-130		11/03/2015 15:18
Toluene-d8	84	70-130		11/03/2015 15:18
4-BFB	116	70-130		11/03/2015 15:18
Benzene-d6	90	60-140		11/03/2015 15:18
Ethylbenzene-d10	82	60-140		11/03/2015 15:18
1,2-DCB-d4	71	60-140		11/03/2015 15:18

Analyst(s): KF



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1510A89-004B	Water	10/29/2015 10:30	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/02/2015 12:52
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/02/2015 12:52
Benzene	ND	0.50	1	11/02/2015 12:52
Bromobenzene	ND	0.50	1	11/02/2015 12:52
Bromochloromethane	ND	0.50	1	11/02/2015 12:52
Bromodichloromethane	ND	0.50	1	11/02/2015 12:52
Bromoform	ND	0.50	1	11/02/2015 12:52
Bromomethane	ND	0.50	1	11/02/2015 12:52
2-Butanone (MEK)	ND	2.0	1	11/02/2015 12:52
t-Butyl alcohol (TBA)	ND	2.0	1	11/02/2015 12:52
n-Butyl benzene	ND	0.50	1	11/02/2015 12:52
sec-Butyl benzene	ND	0.50	1	11/02/2015 12:52
tert-Butyl benzene	ND	0.50	1	11/02/2015 12:52
Carbon Disulfide	ND	0.50	1	11/02/2015 12:52
Carbon Tetrachloride	ND	0.50	1	11/02/2015 12:52
Chlorobenzene	ND	0.50	1	11/02/2015 12:52
Chloroethane	ND	0.50	1	11/02/2015 12:52
Chloroform	ND	0.50	1	11/02/2015 12:52
Chloromethane	ND	0.50	1	11/02/2015 12:52
2-Chlorotoluene	ND	0.50	1	11/02/2015 12:52
4-Chlorotoluene	ND	0.50	1	11/02/2015 12:52
Dibromochloromethane	ND	0.50	1	11/02/2015 12:52
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/02/2015 12:52
1,2-Dibromoethane (EDB)	ND	0.50	1	11/02/2015 12:52
Dibromomethane	ND	0.50	1	11/02/2015 12:52
1,2-Dichlorobenzene	ND	0.50	1	11/02/2015 12:52
1,3-Dichlorobenzene	ND	0.50	1	11/02/2015 12:52
1,4-Dichlorobenzene	ND	0.50	1	11/02/2015 12:52
Dichlorodifluoromethane	ND	0.50	1	11/02/2015 12:52
1,1-Dichloroethane	ND	0.50	1	11/02/2015 12:52
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/02/2015 12:52
1,1-Dichloroethene	ND	0.50	1	11/02/2015 12:52
cis-1,2-Dichloroethene	4.1	0.50	1	11/02/2015 12:52
trans-1,2-Dichloroethene	ND	0.50	1	11/02/2015 12:52
1,2-Dichloropropane	ND	0.50	1	11/02/2015 12:52
1,3-Dichloropropane	ND	0.50	1	11/02/2015 12:52
2,2-Dichloropropane	ND	0.50	1	11/02/2015 12:52

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1510A89-004B	Water	10/29/2015 10:30	GC16	112348
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.50	1	11/02/2015 12:52	
cis-1,3-Dichloropropene	ND	0.50	1	11/02/2015 12:52	
trans-1,3-Dichloropropene	ND	0.50	1	11/02/2015 12:52	
Diisopropyl ether (DIPE)	ND	0.50	1	11/02/2015 12:52	
Ethylbenzene	ND	0.50	1	11/02/2015 12:52	
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/02/2015 12:52	
Freon 113	ND	0.50	1	11/02/2015 12:52	
Hexachlorobutadiene	ND	0.50	1	11/02/2015 12:52	
Hexachloroethane	ND	0.50	1	11/02/2015 12:52	
2-Hexanone	ND	0.50	1	11/02/2015 12:52	
Isopropylbenzene	ND	0.50	1	11/02/2015 12:52	
4-Isopropyl toluene	ND	0.50	1	11/02/2015 12:52	
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/02/2015 12:52	
Methylene chloride	ND	0.50	1	11/02/2015 12:52	
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/02/2015 12:52	
Naphthalene	ND	0.50	1	11/02/2015 12:52	
n-Propyl benzene	ND	0.50	1	11/02/2015 12:52	
Styrene	ND	0.50	1	11/02/2015 12:52	
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/02/2015 12:52	
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/02/2015 12:52	
Tetrachloroethene	ND	0.50	1	11/02/2015 12:52	
Toluene	ND	0.50	1	11/02/2015 12:52	
1,2,3-Trichlorobenzene	ND	0.50	1	11/02/2015 12:52	
1,2,4-Trichlorobenzene	ND	0.50	1	11/02/2015 12:52	
1,1,1-Trichloroethane	ND	0.50	1	11/02/2015 12:52	
1,1,2-Trichloroethane	ND	0.50	1	11/02/2015 12:52	
Trichloroethene	<b>4.0</b>	0.50	1	11/02/2015 12:52	
Trichlorofluoromethane	<b>0.63</b>	0.50	1	11/02/2015 12:52	
1,2,3-Trichloropropane	ND	0.50	1	11/02/2015 12:52	
1,2,4-Trimethylbenzene	ND	0.50	1	11/02/2015 12:52	
1,3,5-Trimethylbenzene	ND	0.50	1	11/02/2015 12:52	
Vinyl Chloride	ND	0.50	1	11/02/2015 12:52	
Xylenes, Total	ND	0.50	1	11/02/2015 12:52	

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# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1510A89-004B	Water	10/29/2015 10:30	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	89	70-130		11/02/2015 12:52
Toluene-d8	88	70-130		11/02/2015 12:52
4-BFB	81	70-130		11/02/2015 12:52

Analyst(s): KF



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	1510A89-008B	Water	10/29/2015 11:20	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	25	2.5	11/03/2015 23:02
tert-Amyl methyl ether (TAME)	ND	1.2	2.5	11/03/2015 23:02
Benzene	ND	1.2	2.5	11/03/2015 23:02
Bromobenzene	ND	1.2	2.5	11/03/2015 23:02
Bromochloromethane	ND	1.2	2.5	11/03/2015 23:02
Bromodichloromethane	ND	1.2	2.5	11/03/2015 23:02
Bromoform	ND	1.2	2.5	11/03/2015 23:02
Bromomethane	ND	1.2	2.5	11/03/2015 23:02
2-Butanone (MEK)	ND	5.0	2.5	11/03/2015 23:02
t-Butyl alcohol (TBA)	ND	5.0	2.5	11/03/2015 23:02
n-Butyl benzene	ND	1.2	2.5	11/03/2015 23:02
sec-Butyl benzene	ND	1.2	2.5	11/03/2015 23:02
tert-Butyl benzene	ND	1.2	2.5	11/03/2015 23:02
Carbon Disulfide	ND	1.2	2.5	11/03/2015 23:02
Carbon Tetrachloride	ND	1.2	2.5	11/03/2015 23:02
Chlorobenzene	ND	1.2	2.5	11/03/2015 23:02
Chloroethane	ND	1.2	2.5	11/03/2015 23:02
Chloroform	ND	1.2	2.5	11/03/2015 23:02
Chloromethane	ND	1.2	2.5	11/03/2015 23:02
2-Chlorotoluene	ND	1.2	2.5	11/03/2015 23:02
4-Chlorotoluene	ND	1.2	2.5	11/03/2015 23:02
Dibromochloromethane	ND	1.2	2.5	11/03/2015 23:02
1,2-Dibromo-3-chloropropane	ND	0.50	2.5	11/03/2015 23:02
1,2-Dibromoethane (EDB)	ND	1.2	2.5	11/03/2015 23:02
Dibromomethane	ND	1.2	2.5	11/03/2015 23:02
1,2-Dichlorobenzene	ND	1.2	2.5	11/03/2015 23:02
1,3-Dichlorobenzene	ND	1.2	2.5	11/03/2015 23:02
1,4-Dichlorobenzene	ND	1.2	2.5	11/03/2015 23:02
Dichlorodifluoromethane	ND	1.2	2.5	11/03/2015 23:02
1,1-Dichloroethane	ND	1.2	2.5	11/03/2015 23:02
1,2-Dichloroethane (1,2-DCA)	ND	1.2	2.5	11/03/2015 23:02
1,1-Dichloroethene	ND	1.2	2.5	11/03/2015 23:02
cis-1,2-Dichloroethene	<b>65</b>	1.2	2.5	11/03/2015 23:02
trans-1,2-Dichloroethene	<b>1.7</b>	1.2	2.5	11/03/2015 23:02
1,2-Dichloropropane	ND	1.2	2.5	11/03/2015 23:02
1,3-Dichloropropane	ND	1.2	2.5	11/03/2015 23:02
2,2-Dichloropropane	ND	1.2	2.5	11/03/2015 23:02

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	1510A89-008B	Water	10/29/2015 11:20	GC16	112348
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	1.2	2.5	11/03/2015 23:02	
cis-1,3-Dichloropropene	ND	1.2	2.5	11/03/2015 23:02	
trans-1,3-Dichloropropene	ND	1.2	2.5	11/03/2015 23:02	
Diisopropyl ether (DIPE)	ND	1.2	2.5	11/03/2015 23:02	
Ethylbenzene	ND	1.2	2.5	11/03/2015 23:02	
Ethyl tert-butyl ether (ETBE)	ND	1.2	2.5	11/03/2015 23:02	
Freon 113	ND	1.2	2.5	11/03/2015 23:02	
Hexachlorobutadiene	ND	1.2	2.5	11/03/2015 23:02	
Hexachloroethane	ND	1.2	2.5	11/03/2015 23:02	
2-Hexanone	ND	1.2	2.5	11/03/2015 23:02	
Isopropylbenzene	ND	1.2	2.5	11/03/2015 23:02	
4-Isopropyl toluene	ND	1.2	2.5	11/03/2015 23:02	
Methyl-t-butyl ether (MTBE)	ND	1.2	2.5	11/03/2015 23:02	
Methylene chloride	ND	1.2	2.5	11/03/2015 23:02	
4-Methyl-2-pentanone (MIBK)	ND	1.2	2.5	11/03/2015 23:02	
Naphthalene	ND	1.2	2.5	11/03/2015 23:02	
n-Propyl benzene	ND	1.2	2.5	11/03/2015 23:02	
Styrene	ND	1.2	2.5	11/03/2015 23:02	
1,1,1,2-Tetrachloroethane	ND	1.2	2.5	11/03/2015 23:02	
1,1,2,2-Tetrachloroethane	ND	1.2	2.5	11/03/2015 23:02	
Tetrachloroethene	ND	1.2	2.5	11/03/2015 23:02	
Toluene	ND	1.2	2.5	11/03/2015 23:02	
1,2,3-Trichlorobenzene	ND	1.2	2.5	11/03/2015 23:02	
1,2,4-Trichlorobenzene	ND	1.2	2.5	11/03/2015 23:02	
1,1,1-Trichloroethane	ND	1.2	2.5	11/03/2015 23:02	
1,1,2-Trichloroethane	ND	1.2	2.5	11/03/2015 23:02	
Trichloroethene	<b>24</b>	1.2	2.5	11/03/2015 23:02	
Trichlorofluoromethane	ND	1.2	2.5	11/03/2015 23:02	
1,2,3-Trichloropropane	ND	1.2	2.5	11/03/2015 23:02	
1,2,4-Trimethylbenzene	ND	1.2	2.5	11/03/2015 23:02	
1,3,5-Trimethylbenzene	ND	1.2	2.5	11/03/2015 23:02	
Vinyl Chloride	<b>1.6</b>	1.2	2.5	11/03/2015 23:02	
Xylenes, Total	ND	1.2	2.5	11/03/2015 23:02	

(Cont.)



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	1510A89-008B	Water	10/29/2015 11:20	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	89	70-130		11/03/2015 23:02
Toluene-d8	88	70-130		11/03/2015 23:02
4-BFB	79	70-130		11/03/2015 23:02

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	1510A89-012B	Water	10/29/2015 09:10	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
Acetone	29	10	1	11/02/2015 14:16
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/02/2015 14:16
Benzene	ND	0.50	1	11/02/2015 14:16
Bromobenzene	ND	0.50	1	11/02/2015 14:16
Bromochloromethane	ND	0.50	1	11/02/2015 14:16
Bromodichloromethane	ND	0.50	1	11/02/2015 14:16
Bromoform	ND	0.50	1	11/02/2015 14:16
Bromomethane	ND	0.50	1	11/02/2015 14:16
2-Butanone (MEK)	ND	2.0	1	11/02/2015 14:16
t-Butyl alcohol (TBA)	ND	2.0	1	11/02/2015 14:16
n-Butyl benzene	ND	0.50	1	11/02/2015 14:16
sec-Butyl benzene	ND	0.50	1	11/02/2015 14:16
tert-Butyl benzene	ND	0.50	1	11/02/2015 14:16
Carbon Disulfide	ND	0.50	1	11/02/2015 14:16
Carbon Tetrachloride	ND	0.50	1	11/02/2015 14:16
Chlorobenzene	ND	0.50	1	11/02/2015 14:16
Chloroethane	ND	0.50	1	11/02/2015 14:16
Chloroform	ND	0.50	1	11/02/2015 14:16
Chloromethane	ND	0.50	1	11/02/2015 14:16
2-Chlorotoluene	ND	0.50	1	11/02/2015 14:16
4-Chlorotoluene	ND	0.50	1	11/02/2015 14:16
Dibromochloromethane	ND	0.50	1	11/02/2015 14:16
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/02/2015 14:16
1,2-Dibromoethane (EDB)	ND	0.50	1	11/02/2015 14:16
Dibromomethane	ND	0.50	1	11/02/2015 14:16
1,2-Dichlorobenzene	ND	0.50	1	11/02/2015 14:16
1,3-Dichlorobenzene	ND	0.50	1	11/02/2015 14:16
1,4-Dichlorobenzene	ND	0.50	1	11/02/2015 14:16
Dichlorodifluoromethane	ND	0.50	1	11/02/2015 14:16
1,1-Dichloroethane	ND	0.50	1	11/02/2015 14:16
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/02/2015 14:16
1,1-Dichloroethene	ND	0.50	1	11/02/2015 14:16
cis-1,2-Dichloroethene	1.0	0.50	1	11/02/2015 14:16
trans-1,2-Dichloroethene	ND	0.50	1	11/02/2015 14:16
1,2-Dichloropropane	ND	0.50	1	11/02/2015 14:16
1,3-Dichloropropane	ND	0.50	1	11/02/2015 14:16
2,2-Dichloropropane	ND	0.50	1	11/02/2015 14:16

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	1510A89-012B	Water	10/29/2015 09:10	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/02/2015 14:16
cis-1,3-Dichloropropene	ND	0.50	1	11/02/2015 14:16
trans-1,3-Dichloropropene	ND	0.50	1	11/02/2015 14:16
Diisopropyl ether (DIPE)	ND	0.50	1	11/02/2015 14:16
Ethylbenzene	ND	0.50	1	11/02/2015 14:16
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/02/2015 14:16
Freon 113	ND	0.50	1	11/02/2015 14:16
Hexachlorobutadiene	ND	0.50	1	11/02/2015 14:16
Hexachloroethane	ND	0.50	1	11/02/2015 14:16
2-Hexanone	ND	0.50	1	11/02/2015 14:16
Isopropylbenzene	ND	0.50	1	11/02/2015 14:16
4-Isopropyl toluene	ND	0.50	1	11/02/2015 14:16
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/02/2015 14:16
Methylene chloride	ND	0.50	1	11/02/2015 14:16
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/02/2015 14:16
Naphthalene	ND	0.50	1	11/02/2015 14:16
n-Propyl benzene	ND	0.50	1	11/02/2015 14:16
Styrene	ND	0.50	1	11/02/2015 14:16
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/02/2015 14:16
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/02/2015 14:16
Tetrachloroethene	ND	0.50	1	11/02/2015 14:16
Toluene	ND	0.50	1	11/02/2015 14:16
1,2,3-Trichlorobenzene	ND	0.50	1	11/02/2015 14:16
1,2,4-Trichlorobenzene	ND	0.50	1	11/02/2015 14:16
1,1,1-Trichloroethane	ND	0.50	1	11/02/2015 14:16
1,1,2-Trichloroethane	ND	0.50	1	11/02/2015 14:16
Trichloroethene	ND	0.50	1	11/02/2015 14:16
Trichlorofluoromethane	<b>0.68</b>	0.50	1	11/02/2015 14:16
1,2,3-Trichloropropane	ND	0.50	1	11/02/2015 14:16
1,2,4-Trimethylbenzene	ND	0.50	1	11/02/2015 14:16
1,3,5-Trimethylbenzene	ND	0.50	1	11/02/2015 14:16
Vinyl Chloride	ND	0.50	1	11/02/2015 14:16
Xylenes, Total	ND	0.50	1	11/02/2015 14:16

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# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	1510A89-012B	Water	10/29/2015 09:10	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	89	70-130		11/02/2015 14:16
Toluene-d8	89	70-130		11/02/2015 14:16
4-BFB	87	70-130		11/02/2015 14:16

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	11/03/2015 14:02

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	97	70-130	11/03/2015 14:02
Benzene-d6	78	60-140	11/03/2015 14:02

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	11/03/2015 14:40

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	97	70-130	11/03/2015 14:40
Benzene-d6	80	60-140	11/03/2015 14:40

Analyst(s): KF

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	GC18	112202

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	11/03/2015 15:18

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	97	70-130	11/03/2015 15:18
Benzene-d6	76	60-140	11/03/2015 15:18

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/2/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1510A89-004B	Water	10/29/2015 10:30	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	11/02/2015 12:52
Surrogates	REC (%)	Limits		
Dibromofluoromethane	93	70-130		11/02/2015 12:52
Analyst(s): KF				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	1510A89-008B	Water	10/29/2015 11:20	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	92	50	1	11/02/2015 13:34
Surrogates	REC (%)	Limits		
Dibromofluoromethane	93	70-130		11/02/2015 13:34
Analyst(s): KF				

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	1510A89-012B	Water	10/29/2015 09:10	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	11/02/2015 14:16
Surrogates	REC (%)	Limits		
Dibromofluoromethane	93	70-130		11/02/2015 14:16
Analyst(s): KF				



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

## CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	ICP-MS1	112189

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	11/04/2015 01:39
Arsenic	4.4	0.50	1	11/04/2015 01:39
Barium	120	5.0	1	11/04/2015 01:39
Beryllium	ND	0.50	1	11/04/2015 01:39
Cadmium	ND	0.25	1	11/04/2015 01:39
Chromium	34	0.50	1	11/04/2015 01:39
Cobalt	6.3	0.50	1	11/04/2015 01:39
Copper	14	0.50	1	11/04/2015 01:39
Lead	4.4	0.50	1	11/04/2015 01:39
Mercury	ND	0.050	1	11/04/2015 01:39
Molybdenum	ND	0.50	1	11/04/2015 01:39
Nickel	38	0.50	1	11/04/2015 01:39
Selenium	ND	0.50	1	11/04/2015 01:39
Silver	ND	0.50	1	11/04/2015 01:39
Thallium	ND	0.50	1	11/04/2015 01:39
Vanadium	30	0.50	1	11/04/2015 01:39
Zinc	36	5.0	1	11/04/2015 01:39

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	96	70-130	11/04/2015 01:39

Analyst(s): DB





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	ICP-MS1	112189

Analytes	Result	RL	DF	Date Analyzed
Antimony	0.58	0.50	1	11/04/2015 01:45
Arsenic	9.5	0.50	1	11/04/2015 01:45
Barium	190	5.0	1	11/04/2015 01:45
Beryllium	0.64	0.50	1	11/04/2015 01:45
Cadmium	ND	0.25	1	11/04/2015 01:45
Chromium	58	0.50	1	11/04/2015 01:45
Cobalt	10	0.50	1	11/04/2015 01:45
Copper	34	0.50	1	11/04/2015 01:45
Lead	12	0.50	1	11/04/2015 01:45
Mercury	ND	0.050	1	11/04/2015 01:45
Molybdenum	ND	0.50	1	11/04/2015 01:45
Nickel	61	0.50	1	11/04/2015 01:45
Selenium	ND	0.50	1	11/04/2015 01:45
Silver	ND	0.50	1	11/04/2015 01:45
Thallium	ND	0.50	1	11/04/2015 01:45
Vanadium	52	0.50	1	11/04/2015 01:45
Zinc	64	5.0	1	11/04/2015 01:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	91	70-130	11/04/2015 01:45

**Analyst(s):** DB



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	ICP-MS1	112189

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	11/04/2015 01:51
Arsenic	4.9	0.50	1	11/04/2015 01:51
Barium	200	5.0	1	11/04/2015 01:51
Beryllium	0.66	0.50	1	11/04/2015 01:51
Cadmium	0.30	0.25	1	11/04/2015 01:51
Chromium	57	0.50	1	11/04/2015 01:51
Cobalt	11	0.50	1	11/04/2015 01:51
Copper	33	0.50	1	11/04/2015 01:51
Lead	21	0.50	1	11/04/2015 01:51
Mercury	ND	0.050	1	11/04/2015 01:51
Molybdenum	ND	0.50	1	11/04/2015 01:51
Nickel	62	0.50	1	11/04/2015 01:51
Selenium	ND	0.50	1	11/04/2015 01:51
Silver	ND	0.50	1	11/04/2015 01:51
Thallium	ND	0.50	1	11/04/2015 01:51
Vanadium	46	0.50	1	11/04/2015 01:51
Zinc	80	5.0	1	11/04/2015 01:51
<b>Surrogates</b>	<b>REC (%)</b>	<b>Limits</b>		
Terbium	97	70-130		11/04/2015 01:51

Analyst(s): DB



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15-11/2/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	GC3	112210

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	1.0	1	10/31/2015 06:55
MTBE	---	0.050	1	10/31/2015 06:55
Benzene	---	0.0050	1	10/31/2015 06:55
Toluene	---	0.0050	1	10/31/2015 06:55
Ethylbenzene	---	0.0050	1	10/31/2015 06:55
TPH(ss)	ND	1.0	1	10/31/2015 06:55
Xylenes	---	0.0050	1	10/31/2015 06:55

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	93	70-130	10/31/2015 06:55

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	GC3	112210

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	1.0	1	10/31/2015 07:25
MTBE	---	0.050	1	10/31/2015 07:25
Benzene	---	0.0050	1	10/31/2015 07:25
Toluene	---	0.0050	1	10/31/2015 07:25
Ethylbenzene	---	0.0050	1	10/31/2015 07:25
TPH(ss)	ND	1.0	1	10/31/2015 07:25
Xylenes	---	0.0050	1	10/31/2015 07:25

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	105	70-130	10/31/2015 07:25

Analyst(s): IA

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15-11/2/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	GC19	112291

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	1.0	1	11/02/2015 21:44
MTBE	---	0.050	1	11/02/2015 21:44
Benzene	---	0.0050	1	11/02/2015 21:44
Toluene	---	0.0050	1	11/02/2015 21:44
Ethylbenzene	---	0.0050	1	11/02/2015 21:44
TPH(ss)	ND	1.0	1	11/02/2015 21:44
Xylenes	---	0.0050	1	11/02/2015 21:44

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	122	70-130	11/02/2015 21:44

**Analyst(s):** IA



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/1/15-11/2/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1510A89-004A	Water	10/29/2015 10:30	GC3	112289

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	50	1	11/01/2015 01:14
MTBE	---	5.0	1	11/01/2015 01:14
Benzene	---	0.50	1	11/01/2015 01:14
Toluene	---	0.50	1	11/01/2015 01:14
Ethylbenzene	---	0.50	1	11/01/2015 01:14
TPH(ss)	ND	50	1	11/01/2015 01:14
Xylenes	---	0.50	1	11/01/2015 01:14

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	103	70-130	11/01/2015 01:14

**Analyst(s):** IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	1510A89-008A	Water	10/29/2015 11:20	GC3	112289

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	50	1	11/02/2015 17:16
MTBE	---	5.0	1	11/02/2015 17:16
Benzene	---	0.50	1	11/02/2015 17:16
Toluene	---	0.50	1	11/02/2015 17:16
Ethylbenzene	---	0.50	1	11/02/2015 17:16
TPH(ss)	ND	50	1	11/02/2015 17:16
Xylenes	---	0.50	1	11/02/2015 17:16

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
aaa-TFT	131	S	70-130	11/02/2015 17:16

**Analyst(s):** IA

**Analytical Comments:** c4

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 11/1/15-11/2/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	1510A89-012A	Water	10/29/2015 09:10	GC3	112289

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	50	1	11/01/2015 01:45
MTBE	---	5.0	1	11/01/2015 01:45
Benzene	---	0.50	1	11/01/2015 01:45
Toluene	---	0.50	1	11/01/2015 01:45
Ethylbenzene	---	0.50	1	11/01/2015 01:45
TPH(ss)	ND	50	1	11/01/2015 01:45
Xylenes	---	0.50	1	11/01/2015 01:45

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	92	70-130	11/01/2015 01:45

**Analyst(s):** IA



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-10	1510A89-003A	Soil	10/29/2015 10:05	GC9b	112201

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	10/30/2015 23:22
TPH-Motor Oil (C18-C36)	ND	5.0	1	10/30/2015 23:22
TPH-Bunker Oil (C10-C36)	ND	5.0	1	10/30/2015 23:22
TPH-Kerosene (C9-C18)	ND	1.0	1	10/30/2015 23:22

Surrogates	REC (%)	Limits	Date Analyzed
C9	106	70-130	10/30/2015 23:22

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2.5	1510A89-005A	Soil	10/29/2015 10:50	GC9b	112201

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	10/30/2015 18:38
TPH-Motor Oil (C18-C36)	ND	5.0	1	10/30/2015 18:38
TPH-Bunker Oil (C10-C36)	ND	5.0	1	10/30/2015 18:38
TPH-Kerosene (C9-C18)	ND	1.0	1	10/30/2015 18:38

Surrogates	REC (%)	Limits	Date Analyzed
C9	104	70-130	10/30/2015 18:38

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-2	1510A89-011A	Soil	10/29/2015 08:55	GC9b	112201

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	54	1.0	1	10/30/2015 21:00
TPH-Motor Oil (C18-C36)	230	5.0	1	10/30/2015 21:00
TPH-Bunker Oil (C10-C36)	150	5.0	1	10/30/2015 21:00
TPH-Kerosene (C9-C18)	44	1.0	1	10/30/2015 21:00

Surrogates	REC (%)	Limits	Date Analyzed
C9	108	70-130	10/30/2015 21:00

Analyst(s): TK

Analytical Comments: e7,e2



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/29/15 18:57  
**Date Prepared:** 10/29/15  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	1510A89-004A	Water	10/29/2015 10:30	GC9b	112203

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	10/31/2015 10:03
TPH-Motor Oil (C18-C36)	ND	250	1	10/31/2015 10:03
TPH-Bunker Oil (C10-C36)	ND	100	1	10/31/2015 10:03
TPH-Kerosene (C9-C18)	ND	50	1	10/31/2015 10:03

Surrogates	REC (%)	Limits	Date Analyzed
C9	104	70-130	10/31/2015 10:03

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	1510A89-008A	Water	10/29/2015 11:20	GC9b	112203

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	10/31/2015 06:30
TPH-Motor Oil (C18-C36)	ND	250	1	10/31/2015 06:30
TPH-Bunker Oil (C10-C36)	ND	100	1	10/31/2015 06:30
TPH-Kerosene (C9-C18)	ND	50	1	10/31/2015 06:30

Surrogates	REC (%)	Limits	Date Analyzed
C9	101	70-130	10/31/2015 06:30

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	1510A89-012A	Water	10/29/2015 09:10	GC6A	112203

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	260	250	5	11/03/2015 15:30
TPH-Motor Oil (C18-C36)	2600	1200	5	11/03/2015 15:30
TPH-Bunker Oil (C10-C36)	2800	500	5	11/03/2015 15:30
TPH-Kerosene (C9-C18)	ND	250	5	11/03/2015 15:30

Surrogates	REC (%)	Limits	Date Analyzed
C9	121	70-130	11/03/2015 15:30

Analyst(s): TK





## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC18  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112202  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112202  
 1510A69-001AMS/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	0.0482	0.0050	0.050	-	96	53-116
Benzene	ND	0.0500	0.0050	0.050	-	100	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.198	0.050	0.20	-	99	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0453	0.0050	0.050	-	91	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0482	0.0040	0.050	-	96	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0556	0.0040	0.050	-	111	58-135
1,1-Dichloroethene	ND	0.0448	0.0050	0.050	-	90	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC18  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112202  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112202  
 1510A69-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0528	0.0050	0.050	-	106	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0511	0.0050	0.050	-	102	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0533	0.0050	0.050	-	107	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0465	0.0050	0.050	-	93	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0440	0.0050	0.050	-	88	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC18  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112202  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112202  
 1510A69-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	0.135	0.131		0.12	108	105	70-130
Toluene-d8	0.108	0.108		0.12	86	86	70-130
4-BFB	0.0145	0.0140		0.012	116	112	70-130
Benzene-d6	0.113	0.107		0.10	113	107	60-140
Ethylbenzene-d10	0.105	0.106		0.10	105	106	60-140
1,2-DCB-d4	0.0807	0.0905		0.10	81	91	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0367	0.0379	0.050	ND	73	76	70-130	3.29	20
Benzene	0.0424	0.0429	0.050	ND	85	86	70-130	1.02	20
t-Butyl alcohol (TBA)	0.166	0.177	0.20	ND	83	88	70-130	6.44	20
Chlorobenzene	0.0379	0.0386	0.050	ND	76	77	70-130	1.70	20
1,2-Dibromoethane (EDB)	0.0357	0.0362	0.050	ND	71	72	70-130	1.40	20
1,2-Dichloroethane (1,2-DCA)	0.0446	0.0452	0.050	ND	89	90	70-130	1.34	20
1,1-Dichloroethene	0.0397	0.0404	0.050	ND	79	81	70-130	1.79	20
Diisopropyl ether (DIPE)	0.0451	0.0460	0.050	ND	90	92	70-130	1.95	20
Ethyl tert-butyl ether (ETBE)	0.0417	0.0427	0.050	ND	83	85	70-130	2.50	20
Methyl-t-butyl ether (MTBE)	0.0396	0.0402	0.050	ND	79	80	70-130	1.38	20
Toluene	0.0423	0.0428	0.050	ND	85	86	70-130	1.26	20
Trichloroethene	0.0680	0.0685	0.050	ND	136,F1	137,F1	70-130	0.697	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	0.109	0.111	0.12		87	89	70-130	1.53	20
Toluene-d8	0.121	0.121	0.12		97	97	70-130	0	20
4-BFB	0.0128	0.0134	0.012		103	107	70-130	4.12	20
Benzene-d6	0.0860	0.0868	0.10		86	87	60-140	0.859	20
Ethylbenzene-d10	0.0907	0.0897	0.10		91	90	60-140	1.12	20
1,2-DCB-d4	0.0648	0.0653	0.10		65	65	60-140	0	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112348  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112348  
 1510B31-006DMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	8.23	0.50	10	-	82	54-140
Benzene	ND	9.80	0.50	10	-	98	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	29.5	2.0	40	-	74	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	8.82	0.50	10	-	88	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	7.89	0.50	10	-	79	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.58	0.50	10	-	96	66-125
1,1-Dichloroethene	ND	9.04	0.50	10	-	90	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112348  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112348  
 1510B31-006DMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	10.2	0.50	10	-	102	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.19	0.50	10	-	92	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	8.66	0.50	10	-	87	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	8.89	0.50	10	-	89	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	8.78	0.50	10	-	88	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112348  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112348  
 1510B31-006DMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	22.5	22.7		25	90	91	70-130
Toluene-d8	22.5	22.3		25	90	89	70-130
4-BFB	2.06	2.30		2.5	82	92	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	8.32	8.57	10	ND	83	86	69-139	2.93	20
Benzene	9.56	9.62	10	ND	96	96	69-141	0	20
t-Butyl alcohol (TBA)	31.9	33.4	40	ND	80	84	41-152	4.73	20
Chlorobenzene	8.67	8.62	10	ND	87	86	77-120	0.577	20
1,2-Dibromoethane (EDB)	8.33	8.37	10	ND	83	84	76-135	0.541	20
1,2-Dichloroethane (1,2-DCA)	9.39	9.59	10	ND	94	96	73-139	2.09	20
1,1-Dichloroethene	8.71	8.71	10	ND	87	87	59-140	0	20
Diisopropyl ether (DIPE)	9.86	10.1	10	ND	99	101	72-140	2.76	20
Ethyl tert-butyl ether (ETBE)	8.99	9.32	10	ND	90	93	71-140	3.62	20
Methyl-t-butyl ether (MTBE)	9.10	9.34	10	ND	89	91	73-139	2.68	20
Toluene	8.77	8.85	10	ND	86	87	71-128	0.895	20
Trichloroethene	8.74	8.67	10	ND	87	87	64-132	0	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	22.3	22.6	25		89	90	70-130	1.47	20
Toluene-d8	21.9	22.3	25		88	89	70-130	1.87	20
4-BFB	2.08	2.10	2.5		83	84	70-130	0.901	20

**CLIENT:** Basics Environmental  
**Work Order:** 1510A89  
**Project:** DW Nicholson

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 112202**

SampleID <b>MB-112202</b>	TestCode: <b>8260gas_s</b>	Units: <b>mg/kg</b>	Prep Date: <b>10/29/2015</b>
Batch ID: <b>112202</b>	TestNo: <b>SW8260B</b>	Run ID: <b>GC18_151104C</b>	Analysis Date: <b>10/30/2015</b>
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual

TPH(g)	ND	0.25	-
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**Surrogate Recovery**

Dibromofluoromethane	0.121	0.125	97	70 - 130
Benzene-d6	0.0920	0.1	92	60 - 140

**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range

CLIENT: Basics Environmental

# ANALYTICAL QC SUMMARY REPORT

Work Order: 1510A89

Project: DW Nicholson

BatchID: 112202

SampleID	LCS-112202	TestCode: 8260gas_s	Units: mg/kg	Prep Date: 10/29/2015						
Batch ID:	112202	TestNo: SW8260B	Run ID: GC18_151104C	Analysis Date: 10/30/2015						
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual

VOC (C6-C12)	2.48	0.25	3.2	0	78	74 - 142				
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### Surrogate Recovery

Dibromofluoromethane	0.118		0.125		94	70 - 130				
Benzene-d6	0.0879		0.1		88	60 - 140				

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range



CLIENT: Basics Environmental

Work Order: 1510A89

Project: DW Nicholson

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 112348

SampleID <b>MB-112348</b>	TestCode: <b>8260GAS_W</b>	Units: <b>µg/L</b>	Prep Date: <b>11/2/2015</b>
Batch ID: <b>112348</b>	TestNo: <b>SW8260B</b>	Run ID: <b>GC16_151103B</b>	Analysis Date: <b>11/2/2015</b>
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual

TPH(g)	ND	50	-
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**Surrogate Recovery**

Dibromofluoromethane	23.2	25	93	70 - 130
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**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Basics Environmental

# ANALYTICAL QC SUMMARY REPORT

Work Order: 1510A89

Project: DW Nicholson

BatchID: 112348

SampleID <b>LCS-112348</b>	TestCode: <b>8260GAS_W</b>	Units: <b>µg/L</b>	Prep Date: <b>11/2/2015</b>
Batch ID: <b>112348</b>	TestNo: <b>SW8260B</b>	Run ID: <b>GC16_151103B</b>	Analysis Date: <b>11/2/2015</b>
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual
VOC (C6-C12)	454	50 644 0 70 75 - 105	S
<b>Surrogate Recovery</b>			
Dibromofluoromethane	23.7	25 95 70 - 130	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/29/15  
**Instrument:** ICP-MS1  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112189  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112189  
 1510A48-026AMS/MSD

### QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	51.4	0.50	50	-	103	75-125
Arsenic	ND	51.4	0.50	50	-	103	75-125
Barium	ND	511	5.0	500	-	102	75-125
Beryllium	ND	47.8	0.50	50	-	96	75-125
Cadmium	ND	51.6	0.25	50	-	103	75-125
Chromium	ND	51.1	0.50	50	-	102	75-125
Cobalt	ND	50.5	0.50	50	-	101	75-125
Copper	ND	52.4	0.50	50	-	105	75-125
Lead	ND	52.4	0.50	50	-	105	75-125
Mercury	ND	1.39	0.050	1.25	-	111	75-125
Molybdenum	ND	48.6	0.50	50	-	97	75-125
Nickel	ND	52.3	0.50	50	-	105	75-125
Selenium	ND	52.5	0.50	50	-	105	75-125
Silver	ND	53.4	0.50	50	-	107	75-125
Thallium	ND	52.1	0.50	50	-	104	75-125
Vanadium	ND	50.8	0.50	50	-	101	75-125
Zinc	ND	524	5.0	500	-	105	75-125
<b>Surrogate Recovery</b>							
Terbium	529	524		500	106	105	70-130

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/29/15  
**Instrument:** ICP-MS1  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112189  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112189  
 1510A48-026AMS/MSD

### QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	54.3	56.8	50	ND	108	113	75-125	4.45	20
Arsenic	53.3	57.4	50	2.565	102	110	75-125	7.30	20
Barium	640	683	500	105.0	107	116	75-125	6.50	20
Beryllium	47.2	50.4	50	0.8302	93	99	75-125	6.48	20
Cadmium	53.6	57.3	50	ND	107	114	75-125	6.74	20
Chromium	67.3	68.7	50	16.56	101	104	75-125	2.15	20
Cobalt	61.5	65.0	50	15.79	91	98	75-125	5.53	20
Copper	65.5	67.8	50	12.66	106	110	75-125	3.52	20
Lead	86.6	94.1	50	39.53	94	109	75-125	8.25	20
Mercury	1.53	1.57	1.25	0.05310	118	122	75-125	2.51	20
Molybdenum	52.1	54.3	50	0.7875	103	107	75-125	4.12	20
Nickel	72.8	73.0	50	18.52	108	109	75-125	0.316	20
Selenium	52.8	53.1	50	ND	105	106	75-125	0.491	20
Silver	53.9	55.3	50	ND	108	111	75-125	2.65	20
Thallium	53.9	56.8	50	ND	108	114	75-125	5.37	20
Vanadium	149	146	50	82.88	132,F8	126,F8	75-125	2.03	20
Zinc	601	614	500	64.62	107	110	75-125	2.11	20

#### Surrogate Recovery

Terbium	568	588	500		114	118	70-130	3.49	20
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Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Vanadium	133	50	82.88	100	80-120



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC7  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112210  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112210  
 1510A70-011AMS/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	0.512	0.40	0.60	-	85	70-130
MTBE	ND	0.0911	0.050	0.10	-	91	70-130
Benzene	ND	0.0968	0.0050	0.10	-	97	70-130
Toluene	ND	0.0891	0.0050	0.10	-	89	70-130
Ethylbenzene	ND	0.0971	0.0050	0.10	-	97	70-130
Xylenes	ND	0.299	0.0050	0.30	-	100	70-130

#### Surrogate Recovery

2-Fluorotoluene	0.106	0.114		0.10	106	114	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.495	0.486	0.60	ND	82	81	70-130	1.74	20
MTBE	0.0823	0.0927	0.10	ND	82	93	70-130	11.9	20
Benzene	0.0926	0.0943	0.10	ND	93	94	70-130	1.77	20
Toluene	0.0866	0.0870	0.10	ND	87	87	70-130	0	20
Ethylbenzene	0.0940	0.0952	0.10	ND	94	95	70-130	1.20	20
Xylenes	0.290	0.303	0.30	ND	97	101	70-130	4.52	20

#### Surrogate Recovery

2-Fluorotoluene	0.112	0.113	0.10		112	113	70-130	0.515	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC19  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112291  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112291  
 1511033-001AMS/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	0.600	0.40	0.60	-	100	70-130
MTBE	ND	0.0885	0.050	0.10	-	89	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.105	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.108	0.0050	0.10	-	108	70-130
Xylenes	ND	0.344	0.0050	0.30	-	115	70-130

**Surrogate Recovery**

2-Fluorotoluene	0.129	0.123		0.10	129	123	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND	NR	NR	-	NR	
MTBE	NR	NR		ND	NR	NR	-	NR	
Benzene	NR	NR		ND	NR	NR	-	NR	
Toluene	NR	NR		0.0089	NR	NR	-	NR	
Ethylbenzene	NR	NR		0.015	NR	NR	-	NR	
Xylenes	NR	NR		0.098	NR	NR	-	NR	

**Surrogate Recovery**

2-Fluorotoluene	NR	NR			NR	NR	-	NR	
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/31/15  
**Date Analyzed:** 10/31/15  
**Instrument:** GC3  
**Matrix:** Water  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112289  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112289  
 1510A45-021AMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.7	40	60	-	100	70-130
MTBE	ND	10.6	5.0	10	-	106	70-130
Benzene	ND	9.66	0.50	10	-	97	70-130
Toluene	ND	9.73	0.50	10	-	97	70-130
Ethylbenzene	ND	9.85	0.50	10	-	98	70-130
Xylenes	ND	29.9	0.50	30	-	100	70-130

**Surrogate Recovery**

aaa-TFT	9.18	9.44		10	92	94	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.1	59.4	60	ND	102	99	70-130	2.87	20
MTBE	9.62	9.68	10	ND	96	97	70-130	0.669	20
Benzene	10.3	10.1	10	ND	103	101	70-130	2.50	20
Toluene	10.4	10.0	10	ND	102	99	70-130	3.28	20
Ethylbenzene	10.5	10.2	10	ND	105	102	70-130	2.92	20
Xylenes	31.9	31.1	30	ND	106	104	70-130	2.34	20

**Surrogate Recovery**

aaa-TFT	9.40	9.45	10		94	94	70-130	0	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC11A, GC2A  
**Matrix:** Soil  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112201  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112201  
 1510A62-008AMS/MSD

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

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.9	1.0	40	-	105	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
<b>Surrogate Recovery</b>							
C9	24.4	23.9		25	97	96	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)	41.4	41.2	40	ND	103	103	70-130	0	30
<b>Surrogate Recovery</b>									
C9	24.8	24.8	25		99	99	70-130	0	30





## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC11A, GC2A  
**Matrix:** Water  
**Project:** DW Nicholson

**WorkOrder:** 1510A89  
**BatchID:** 112203  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112203

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

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1030	50	1000	-	103	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
<b>Surrogate Recovery</b>							
C9	625	597		625	100	96	65-122

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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1510A89

ClientCode: BEO

WaterTrax     WriteOn     EDF     Excel     EQUS     Email     HardCopy     ThirdParty     J-flag

**Report to:**

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

Email: basicsenvironmental@gmail.com  
cc/3rd Party: litafreeman@gmail.com  
PO:  
ProjectNo: DW Nicholson

**Bill to:**

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

**Requested TAT: 5 days;**

**Date Received: 10/29/2015**

**Date Printed: 11/03/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1510A89-003	SB-1-10	Soil	10/29/2015 10:05	<input type="checkbox"/>	A		A		A	A		A				
1510A89-004	SB-1-W	Water	10/29/2015 10:30	<input type="checkbox"/>		B		B			A		A			
1510A89-005	SB-3-2.5	Soil	10/29/2015 10:50	<input type="checkbox"/>	A		A		A	A		A				
1510A89-008	SB-3-W	Water	10/29/2015 11:20	<input type="checkbox"/>		B		B			A		A			
1510A89-011	SB-4-2	Soil	10/29/2015 8:55	<input type="checkbox"/>	A		A		A	A		A				
1510A89-012	SB-4-W	Water	10/29/2015 9:10	<input type="checkbox"/>		B		B			A		A			

**Test Legend:**

1	8260B_S
5	CAM17MS_S
9	TPH_W

2	8260B_W
6	G-MBTEX_S
10	

3	8260GAS_S
7	G-MBTEX_W
11	

4	8260GAS_W
8	TPH_S
12	

The following SampIDs: 003A, 004B, 005A, 008B, 011A, 012B contain testgroup.

**Prepared by: Briana Cutino**

**Comments:**

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



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510A89

**Project:** DW Nicholson

**Client Contact:** Donovan Tom

**Date Received:** 10/29/2015

**Comments:**

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

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510A89-001A	SB-1-2	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 9:50			<input checked="" type="checkbox"/>	
1510A89-002A	SB-1-5	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 10:00			<input checked="" type="checkbox"/>	
1510A89-003A	SB-1-10	Soil	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Diesel (C10-C23)_sv, TPH-Kerosene (C9-C18), TPH-Motor Oil (C18-C36)> SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2> SW6020 (CAM 17) TPH(g) & 8260 (Basic List) by P&T GCMS	1	Acetate Liner	<input type="checkbox"/>	10/29/2015 10:05	5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1510A89-004A	SB-1-W	Water	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Kerosene (C9-C18), TPH-Motor Oil (C18-C36)> SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2>	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	10/29/2015 10:30	5 days	Trace	<input type="checkbox"/>	
						<input type="checkbox"/>		5 days	Trace	<input type="checkbox"/>	

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



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510A89

**Project:** DW Nicholson

**Client Contact:** Donovan Tom

**Date Received:** 10/29/2015

**Comments:**

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

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut	
1510A89-004B	SB-1-W	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	3	VOA w/ HCl	<input type="checkbox"/>	10/29/2015 10:30	5 days	Trace	<input type="checkbox"/>		
				1	1LA w/ HCl	<input type="checkbox"/>				<input type="checkbox"/>		
1510A89-005A	SB-3-2.5	Soil	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Diesel (C10-C23)_sv, TPH- Kerosene (C9-C18), TPH-Motor Oil (C18-C36)> SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2> SW6020 (CAM 17) TPH(g) & 8260 (Basic List) by P&T GCMS	1	Acetate Liner	<input type="checkbox"/>	10/29/2015 10:50	5 days		<input type="checkbox"/>		
						<input type="checkbox"/>				5 days		<input type="checkbox"/>
						<input type="checkbox"/>				5 days		<input type="checkbox"/>
						<input type="checkbox"/>				5 days		<input type="checkbox"/>
1510A89-006A	SB-3-5	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 10:55			<input checked="" type="checkbox"/>		
1510A89-007A	SB-3-10	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 11:00		None	<input checked="" type="checkbox"/>		
1510A89-008A	SB-3-W	Water	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Kerosene (C9-C18), TPH-Motor Oil (C18-C36)>	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	10/29/2015 11:20	5 days	Trace	<input type="checkbox"/>		

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

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



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510A89

**Project:** DW Nicholson

**Client Contact:** Donovan Tom

**Date Received:** 10/29/2015

**Comments:**

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

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510A89-008A	SB-3-W	Water	SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2>	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	10/29/2015 11:20	5 days	Trace	<input type="checkbox"/>	
1510A89-008B	SB-3-W	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	3	VOA w/ HCl	<input type="checkbox"/>	10/29/2015 11:20	5 days	Trace	<input type="checkbox"/>	
				1	1LA w/ HCl	<input type="checkbox"/>			Trace	<input type="checkbox"/>	
1510A89-009A	SB-4-5	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 8:30			<input checked="" type="checkbox"/>	
1510A89-010A	SB-4-10	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 8:35			<input checked="" type="checkbox"/>	
1510A89-011A	SB-4-2	Soil	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Diesel (C10-C23)_sv, TPH- Kerosene (C9-C18), TPH-Motor Oil (C18-C36)>	1	Acetate Liner	<input type="checkbox"/>	10/29/2015 8:55	5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	
						<input type="checkbox"/>		5 days		<input type="checkbox"/>	

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

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



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510A89

**Project:** DW Nicholson

**Client Contact:** Donovan Tom

**Date Received:** 10/29/2015

**Comments:**

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

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510A89-012A	SB-4-W	Water	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Kerosene (C9-C18), TPH-Motor Oil (C18-C36)>	4	2 VOAs w/HCL + 2-aVOAs (multi-range)	<input type="checkbox"/>	10/29/2015 9:10	5 days	Trace	<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2>			<input type="checkbox"/>		5 days	Trace	<input type="checkbox"/>	
1510A89-012B	SB-4-W	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	3	VOA w/ HCl	<input type="checkbox"/>	10/29/2015 9:10	5 days	Trace	<input type="checkbox"/>	
				1	1LA w/ HCl	<input type="checkbox"/>			Trace	<input type="checkbox"/>	

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

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









### Sample Receipt Checklist

Client Name: **Basics Environmental** Date and Time Received: **10/29/2015 6:57:17 PM**  
 Project Name: **DW Nicholson** LogIn Reviewed by: **Briana Cutino**  
 WorkOrder No: **1510A89** Matrix: Soil/Water Carrier: Benjamin Yslas (MAI Courier)

**Chain of Custody (COC) Information**

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

**Sample Receipt Information**

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

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

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: 1°C NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

(Ice Type: WET ICE )

**UCMR3 Samples:**

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

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

Comments: Method SW8260B (TPH-gas) was received passed its 0.25-day holding time. Method SW8260B (TPH-gas (PPMV)) was received passed its 0.25-day holding time. Method SW8260B (VOCs) was received passed its 0.25-day holding time.



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1510B31

**Report Created for:** Basics Environmental

655 12th Street, Suite 126  
Oakland, CA 94607

**Project Contact:** Donovan Tom

**Project P.O.:**

**Project Name:** D.W. Nicholson

**Project Received:** 10/30/2015

Analytical Report reviewed & approved for release on 11/09/2015 by:

Angela Rydelius,  
Laboratory Manager

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





## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** D.W. Nicholson  
**WorkOrder:** 1510B31

### Glossary Abbreviation

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

### Quality Control Qualifiers

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



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** E1664A  
**Analytical Method:** E1664A  
**Unit:** mg/L

### Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006B	Water	10/29/2015 14:05	O&G	112318

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	11/03/2015 14:30

Analyst(s): HN



**McC Campbell Analytical, Inc.**

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

# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/9/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SM5520E/F  
**Analytical Method:** SM5520E/F  
**Unit:** mg/Kg

## Petroleum Oil & Grease with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	O&G	112615

Analytes	Result	RL	DF	Date Analyzed
POG	ND	50	1	11/09/2015 11:50

Analyst(s): HN



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3b-5	1510B31-001A	Soil	10/29/2015 12:20	GC18	112308

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.0050	1	11/03/2015 23:40
Bromochloromethane	ND	0.0050	1	11/03/2015 23:40
Bromodichloromethane	ND	0.0050	1	11/03/2015 23:40
Bromoform	ND	0.0050	1	11/03/2015 23:40
Bromomethane	ND	0.0050	1	11/03/2015 23:40
Carbon Tetrachloride	ND	0.0050	1	11/03/2015 23:40
Chlorobenzene	ND	0.0050	1	11/03/2015 23:40
Chloroethane	ND	0.0050	1	11/03/2015 23:40
Chloroform	ND	0.0050	1	11/03/2015 23:40
Chloromethane	ND	0.0050	1	11/03/2015 23:40
2-Chlorotoluene	ND	0.0050	1	11/03/2015 23:40
4-Chlorotoluene	ND	0.0050	1	11/03/2015 23:40
Dibromochloromethane	ND	0.0050	1	11/03/2015 23:40
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/03/2015 23:40
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/03/2015 23:40
Dibromomethane	ND	0.0050	1	11/03/2015 23:40
1,2-Dichlorobenzene	ND	0.0050	1	11/03/2015 23:40
1,3-Dichlorobenzene	ND	0.0050	1	11/03/2015 23:40
1,4-Dichlorobenzene	ND	0.0050	1	11/03/2015 23:40
Dichlorodifluoromethane	ND	0.0050	1	11/03/2015 23:40
1,1-Dichloroethane	ND	0.0050	1	11/03/2015 23:40
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/03/2015 23:40
1,1-Dichloroethene	ND	0.0050	1	11/03/2015 23:40
cis-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 23:40
trans-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 23:40
1,2-Dichloropropane	ND	0.0050	1	11/03/2015 23:40
1,3-Dichloropropane	ND	0.0050	1	11/03/2015 23:40
2,2-Dichloropropane	ND	0.0050	1	11/03/2015 23:40
1,1-Dichloropropene	ND	0.0050	1	11/03/2015 23:40
cis-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 23:40
trans-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 23:40
Freon 113	ND	0.0050	1	11/03/2015 23:40
Hexachlorobutadiene	ND	0.0050	1	11/03/2015 23:40
Hexachloroethane	ND	0.0050	1	11/03/2015 23:40
Methylene chloride	ND	0.0050	1	11/03/2015 23:40
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 23:40
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 23:40

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3b-5	1510B31-001A	Soil	10/29/2015 12:20	GC18	112308

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	ND	0.0050	1	11/03/2015 23:40
1,2,3-Trichlorobenzene	ND	0.0050	1	11/03/2015 23:40
1,2,4-Trichlorobenzene	ND	0.0050	1	11/03/2015 23:40
1,1,1-Trichloroethane	ND	0.0050	1	11/03/2015 23:40
1,1,2-Trichloroethane	ND	0.0050	1	11/03/2015 23:40
Trichloroethene	ND	0.0050	1	11/03/2015 23:40
Trichlorofluoromethane	ND	0.0050	1	11/03/2015 23:40
1,2,3-Trichloropropane	ND	0.0050	1	11/03/2015 23:40
Vinyl Chloride	ND	0.0050	1	11/03/2015 23:40

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	108	70-130	11/03/2015 23:40
Toluene-d8	86	70-130	11/03/2015 23:40
4-BFB	114	70-130	11/03/2015 23:40
Benzene-d6	107	60-140	11/03/2015 23:40
Ethylbenzene-d10	105	60-140	11/03/2015 23:40
1,2-DCB-d4	83	60-140	11/03/2015 23:40

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	GC18	112308
Analytes	Result	RL	DF	Date Analyzed	
Acetone	ND	0.10	1	11/03/2015 15:56	
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/03/2015 15:56	
Benzene	ND	0.0050	1	11/03/2015 15:56	
Bromobenzene	ND	0.0050	1	11/03/2015 15:56	
Bromochloromethane	ND	0.0050	1	11/03/2015 15:56	
Bromodichloromethane	ND	0.0050	1	11/03/2015 15:56	
Bromoform	ND	0.0050	1	11/03/2015 15:56	
Bromomethane	ND	0.0050	1	11/03/2015 15:56	
2-Butanone (MEK)	ND	0.020	1	11/03/2015 15:56	
t-Butyl alcohol (TBA)	ND	0.050	1	11/03/2015 15:56	
n-Butyl benzene	ND	0.0050	1	11/03/2015 15:56	
sec-Butyl benzene	ND	0.0050	1	11/03/2015 15:56	
tert-Butyl benzene	ND	0.0050	1	11/03/2015 15:56	
Carbon Disulfide	ND	0.0050	1	11/03/2015 15:56	
Carbon Tetrachloride	ND	0.0050	1	11/03/2015 15:56	
Chlorobenzene	ND	0.0050	1	11/03/2015 15:56	
Chloroethane	ND	0.0050	1	11/03/2015 15:56	
Chloroform	ND	0.0050	1	11/03/2015 15:56	
Chloromethane	ND	0.0050	1	11/03/2015 15:56	
2-Chlorotoluene	ND	0.0050	1	11/03/2015 15:56	
4-Chlorotoluene	ND	0.0050	1	11/03/2015 15:56	
Dibromochloromethane	ND	0.0050	1	11/03/2015 15:56	
1,2-Dibromo-3-chloropropane	ND	0.0040	1	11/03/2015 15:56	
1,2-Dibromoethane (EDB)	ND	0.0040	1	11/03/2015 15:56	
Dibromomethane	ND	0.0050	1	11/03/2015 15:56	
1,2-Dichlorobenzene	ND	0.0050	1	11/03/2015 15:56	
1,3-Dichlorobenzene	ND	0.0050	1	11/03/2015 15:56	
1,4-Dichlorobenzene	ND	0.0050	1	11/03/2015 15:56	
Dichlorodifluoromethane	ND	0.0050	1	11/03/2015 15:56	
1,1-Dichloroethane	ND	0.0050	1	11/03/2015 15:56	
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	11/03/2015 15:56	
1,1-Dichloroethene	ND	0.0050	1	11/03/2015 15:56	
cis-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 15:56	
trans-1,2-Dichloroethene	ND	0.0050	1	11/03/2015 15:56	
1,2-Dichloropropane	ND	0.0050	1	11/03/2015 15:56	
1,3-Dichloropropane	ND	0.0050	1	11/03/2015 15:56	
2,2-Dichloropropane	ND	0.0050	1	11/03/2015 15:56	

(Cont.)





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	GC18	112308
Analytes	Result	RL	DF	Date Analyzed	
1,1-Dichloropropene	ND	0.0050	1	11/03/2015 15:56	
cis-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 15:56	
trans-1,3-Dichloropropene	ND	0.0050	1	11/03/2015 15:56	
Diisopropyl ether (DIPE)	ND	0.0050	1	11/03/2015 15:56	
Ethylbenzene	ND	0.0050	1	11/03/2015 15:56	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/03/2015 15:56	
Freon 113	ND	0.0050	1	11/03/2015 15:56	
Hexachlorobutadiene	ND	0.0050	1	11/03/2015 15:56	
Hexachloroethane	ND	0.0050	1	11/03/2015 15:56	
2-Hexanone	ND	0.0050	1	11/03/2015 15:56	
Isopropylbenzene	ND	0.0050	1	11/03/2015 15:56	
4-Isopropyl toluene	ND	0.0050	1	11/03/2015 15:56	
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/03/2015 15:56	
Methylene chloride	ND	0.0050	1	11/03/2015 15:56	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/03/2015 15:56	
Naphthalene	ND	0.0050	1	11/03/2015 15:56	
n-Propyl benzene	ND	0.0050	1	11/03/2015 15:56	
Styrene	ND	0.0050	1	11/03/2015 15:56	
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 15:56	
1,1,2,2-Tetrachloroethane	ND	0.0050	1	11/03/2015 15:56	
Tetrachloroethene	ND	0.0050	1	11/03/2015 15:56	
Toluene	ND	0.0050	1	11/03/2015 15:56	
1,2,3-Trichlorobenzene	ND	0.0050	1	11/03/2015 15:56	
1,2,4-Trichlorobenzene	ND	0.0050	1	11/03/2015 15:56	
1,1,1-Trichloroethane	ND	0.0050	1	11/03/2015 15:56	
1,1,2-Trichloroethane	ND	0.0050	1	11/03/2015 15:56	
Trichloroethene	ND	0.0050	1	11/03/2015 15:56	
Trichlorofluoromethane	ND	0.0050	1	11/03/2015 15:56	
1,2,3-Trichloropropane	ND	0.0050	1	11/03/2015 15:56	
1,2,4-Trimethylbenzene	ND	0.0050	1	11/03/2015 15:56	
1,3,5-Trimethylbenzene	ND	0.0050	1	11/03/2015 15:56	
Vinyl Chloride	ND	0.0050	1	11/03/2015 15:56	
Xylenes, Total	ND	0.0050	1	11/03/2015 15:56	

(Cont.)



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

# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	GC18	112308

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	109	70-130		11/03/2015 15:56
Toluene-d8	85	70-130		11/03/2015 15:56
4-BFB	118	70-130		11/03/2015 15:56
Benzene-d6	103	60-140		11/03/2015 15:56
Ethylbenzene-d10	97	60-140		11/03/2015 15:56
1,2-DCB-d4	80	60-140		11/03/2015 15:56

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006D	Water	10/29/2015 14:05	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	11/02/2015 12:07
tert-Amyl methyl ether (TAME)	ND	0.50	1	11/02/2015 12:07
Benzene	ND	0.50	1	11/02/2015 12:07
Bromobenzene	ND	0.50	1	11/02/2015 12:07
Bromochloromethane	ND	0.50	1	11/02/2015 12:07
Bromodichloromethane	ND	0.50	1	11/02/2015 12:07
Bromoform	ND	0.50	1	11/02/2015 12:07
Bromomethane	ND	0.50	1	11/02/2015 12:07
2-Butanone (MEK)	ND	2.0	1	11/02/2015 12:07
t-Butyl alcohol (TBA)	ND	2.0	1	11/02/2015 12:07
n-Butyl benzene	ND	0.50	1	11/02/2015 12:07
sec-Butyl benzene	ND	0.50	1	11/02/2015 12:07
tert-Butyl benzene	ND	0.50	1	11/02/2015 12:07
Carbon Disulfide	ND	0.50	1	11/02/2015 12:07
Carbon Tetrachloride	ND	0.50	1	11/02/2015 12:07
Chlorobenzene	ND	0.50	1	11/02/2015 12:07
Chloroethane	ND	0.50	1	11/02/2015 12:07
Chloroform	ND	0.50	1	11/02/2015 12:07
Chloromethane	ND	0.50	1	11/02/2015 12:07
2-Chlorotoluene	ND	0.50	1	11/02/2015 12:07
4-Chlorotoluene	ND	0.50	1	11/02/2015 12:07
Dibromochloromethane	ND	0.50	1	11/02/2015 12:07
1,2-Dibromo-3-chloropropane	ND	0.20	1	11/02/2015 12:07
1,2-Dibromoethane (EDB)	ND	0.50	1	11/02/2015 12:07
Dibromomethane	ND	0.50	1	11/02/2015 12:07
1,2-Dichlorobenzene	ND	0.50	1	11/02/2015 12:07
1,3-Dichlorobenzene	ND	0.50	1	11/02/2015 12:07
1,4-Dichlorobenzene	ND	0.50	1	11/02/2015 12:07
Dichlorodifluoromethane	ND	0.50	1	11/02/2015 12:07
1,1-Dichloroethane	ND	0.50	1	11/02/2015 12:07
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	11/02/2015 12:07
1,1-Dichloroethene	ND	0.50	1	11/02/2015 12:07
cis-1,2-Dichloroethene	ND	0.50	1	11/02/2015 12:07
trans-1,2-Dichloroethene	ND	0.50	1	11/02/2015 12:07
1,2-Dichloropropane	ND	0.50	1	11/02/2015 12:07
1,3-Dichloropropane	ND	0.50	1	11/02/2015 12:07
2,2-Dichloropropane	ND	0.50	1	11/02/2015 12:07

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006D	Water	10/29/2015 14:05	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.50	1	11/02/2015 12:07
cis-1,3-Dichloropropene	ND	0.50	1	11/02/2015 12:07
trans-1,3-Dichloropropene	ND	0.50	1	11/02/2015 12:07
Diisopropyl ether (DIPE)	ND	0.50	1	11/02/2015 12:07
Ethylbenzene	ND	0.50	1	11/02/2015 12:07
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	11/02/2015 12:07
Freon 113	ND	0.50	1	11/02/2015 12:07
Hexachlorobutadiene	ND	0.50	1	11/02/2015 12:07
Hexachloroethane	ND	0.50	1	11/02/2015 12:07
2-Hexanone	ND	0.50	1	11/02/2015 12:07
Isopropylbenzene	ND	0.50	1	11/02/2015 12:07
4-Isopropyl toluene	ND	0.50	1	11/02/2015 12:07
Methyl-t-butyl ether (MTBE)	ND	0.50	1	11/02/2015 12:07
Methylene chloride	ND	0.50	1	11/02/2015 12:07
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	11/02/2015 12:07
Naphthalene	ND	0.50	1	11/02/2015 12:07
n-Propyl benzene	ND	0.50	1	11/02/2015 12:07
Styrene	ND	0.50	1	11/02/2015 12:07
1,1,1,2-Tetrachloroethane	ND	0.50	1	11/02/2015 12:07
1,1,2,2-Tetrachloroethane	ND	0.50	1	11/02/2015 12:07
Tetrachloroethene	ND	0.50	1	11/02/2015 12:07
Toluene	ND	0.50	1	11/02/2015 12:07
1,2,3-Trichlorobenzene	ND	0.50	1	11/02/2015 12:07
1,2,4-Trichlorobenzene	ND	0.50	1	11/02/2015 12:07
1,1,1-Trichloroethane	ND	0.50	1	11/02/2015 12:07
1,1,2-Trichloroethane	ND	0.50	1	11/02/2015 12:07
Trichloroethene	ND	0.50	1	11/02/2015 12:07
Trichlorofluoromethane	1.1	0.50	1	11/02/2015 12:07
1,2,3-Trichloropropane	ND	0.50	1	11/02/2015 12:07
1,2,4-Trimethylbenzene	ND	0.50	1	11/02/2015 12:07
1,3,5-Trimethylbenzene	ND	0.50	1	11/02/2015 12:07
Vinyl Chloride	ND	0.50	1	11/02/2015 12:07
Xylenes, Total	ND	0.50	1	11/02/2015 12:07

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006D	Water	10/29/2015 14:05	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	90	70-130		11/02/2015 12:07
Toluene-d8	89	70-130		11/02/2015 12:07
4-BFB	82	70-130		11/02/2015 12:07

Analyst(s): KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/kg

### TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	GC18	112308

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	11/03/2015 15:56
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	98	70-130		11/03/2015 15:56
Benzene-d6	85	60-140		11/03/2015 15:56

**Analyst(s):** KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### TPH(g) by Purge & Trap and GC/MS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006D	Water	10/29/2015 14:05	GC16	112348

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	11/02/2015 12:07

Surrogates	REC (%)	Limits	Date Analyzed
Dibromofluoromethane	94	70-130	11/02/2015 12:07

**Analyst(s):** KF



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 10/30/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg

### CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	ICP-MS1	112226
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Antimony	ND		0.50	1	11/04/2015 21:31
Arsenic	8.0		0.50	1	11/04/2015 21:31
Barium	190		5.0	1	11/04/2015 21:31
Beryllium	0.68		0.50	1	11/04/2015 21:31
Cadmium	0.27		0.25	1	11/04/2015 21:31
Chromium	59		0.50	1	11/04/2015 21:31
Cobalt	17		0.50	1	11/04/2015 21:31
Copper	29		0.50	1	11/04/2015 21:31
Lead	9.6		0.50	1	11/04/2015 21:31
Mercury	ND		0.050	1	11/04/2015 21:31
Molybdenum	0.77		0.50	1	11/04/2015 21:31
Nickel	86		0.50	1	11/04/2015 21:31
Selenium	ND		0.50	1	11/04/2015 21:31
Silver	ND		0.50	1	11/04/2015 21:31
Thallium	ND		0.50	1	11/04/2015 21:31
Vanadium	52		0.50	1	11/04/2015 21:31
Zinc	64		5.0	1	11/04/2015 21:31
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	100		70-130		11/04/2015 21:31
<u>Analyst(s):</u> DVH					





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 10/30/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3b-5	1510B31-001A	Soil	10/29/2015 12:20	GC7	112210

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	1.0	1	10/31/2015 21:15
MTBE	---	0.050	1	10/31/2015 21:15
Benzene	ND	0.0050	1	10/31/2015 21:15
Toluene	ND	0.0050	1	10/31/2015 21:15
Ethylbenzene	ND	0.0050	1	10/31/2015 21:15
Xylenes	ND	0.0050	1	10/31/2015 21:15

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	103	70-130	10/31/2015 21:15

**Analyst(s):** IA



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 11/2/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006C	Water	10/29/2015 14:05	GC3	112289

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	50	1	11/02/2015 17:46
MTBE	---	5.0	1	11/02/2015 17:46
Benzene	---	0.50	1	11/02/2015 17:46
Toluene	---	0.50	1	11/02/2015 17:46
Ethylbenzene	---	0.50	1	11/02/2015 17:46
TPH(ss)	ND	50	1	11/02/2015 17:46
Xylenes	---	0.50	1	11/02/2015 17:46

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT	93	70-130	11/02/2015 17:46

**Analyst(s):** IA



**McC Campbell Analytical, Inc.**

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## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 10/30/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3b-5	1510B31-001A	Soil	10/29/2015 12:20	GC11A	112262

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/02/2015 15:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/02/2015 15:03

Surrogates	REC (%)	Limits	Date Analyzed
C9	97	70-130	11/02/2015 15:03

**Analyst(s):** TK



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 10/30/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1510B31-003A	Soil	10/29/2015 13:25	GC11B	112262

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/04/2015 04:53
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/04/2015 04:53
TPH-Bunker Oil (C10-C36)	ND	5.0	1	11/04/2015 04:53
TPH-Kerosene (C9-C18)	ND	1.0	1	11/04/2015 04:53

Surrogates	REC (%)	Limits	Date Analyzed
C9	114	70-130	11/04/2015 04:53

**Analyst(s):** TK



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# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 17:31  
**Date Prepared:** 10/30/15  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	1510B31-006A	Water	10/29/2015 14:05	GC11B	112264

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	11/04/2015 08:19
TPH-Motor Oil (C18-C36)	ND	250	1	11/04/2015 08:19
TPH-Bunker Oil (C10-C36)	ND	100	1	11/04/2015 08:19
TPH-Kerosene (C9-C18)	ND	50	1	11/04/2015 08:19

Surrogates	REC (%)	Limits	Date Analyzed
C9	121	70-130	11/04/2015 08:19

Analyst(s): TK



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/3/15  
**Instrument:** O&G  
**Matrix:** Water  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112318  
**Extraction Method:** E1664A  
**Analytical Method:** E1664A  
**Unit:** mg/L  
**Sample ID:** MB/LCS-112318

---

### QC Summary Report for E1664A

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Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
HEM	ND	19.2	5.0	20.83	-	92	70-130

---



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/9/15  
**Date Analyzed:** 11/9/15  
**Instrument:** O&G  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112615  
**Extraction Method:** SM5520E/F  
**Analytical Method:** SM5520E/F  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112615  
 1511269-001AMS/MSD

### QC Summary Report for SM5520E/F

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
POG	ND	1870	50	2000	-	94	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
POG	1900	2170	2000	ND	95	109	70-130	13.2	30



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC10, GC16  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112308  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112308  
 1510B22-001AMS/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	-	0.0050	-	-	-	-
Benzene	ND	-	0.0050	-	-	-	-
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	-	0.050	-	-	-	-
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	0.0467	0.0050	0.050	-	93	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0433	0.0040	0.050	-	87	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0434	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0481	0.0050	0.050	-	96	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)





## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC10, GC16  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112308  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112308  
 1510B22-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.0050	-	-	-	-
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.0050	-	-	-	-
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	-	0.0050	-	-	-	-
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	-	0.0050	-	-	-	-
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	0.0526	0.0050	0.050	-	105	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC10, GC16  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112308  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112308  
 1510B22-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	0.106	0.108		0.12	85	86	70-130
Toluene-d8	0.121	0.108		0.12	97	86	70-130
4-BFB	0.0113	0.00943		0.012	90	75	70-130
Benzene-d6	0.0968	0.0905		0.10	97	91	60-140
Ethylbenzene-d10	0.103	0.101		0.10	103	101	60-140
1,2-DCB-d4	0.0717	0.0837		0.10	72	84	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chlorobenzene	0.0431	0.0425	0.050	ND	86	85	70-130	1.37	20
1,2-Dibromoethane (EDB)	0.0404	0.0411	0.050	ND	81	82	70-130	1.76	20
1,2-Dichloroethane (1,2-DCA)	0.0404	0.0417	0.050	ND	81	83	70-130	3.15	20
1,1-Dichloroethene	0.0440	0.0435	0.050	ND	88	87	70-130	1.37	20
Trichloroethene	0.0488	0.0479	0.050	ND	98	96	70-130	1.76	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	0.108	0.110	0.12		86	88	70-130	1.99	20
Toluene-d8	0.106	0.107	0.12		85	85	70-130	0	20
4-BFB	0.00950	0.00955	0.012		76	76	70-130	0	20
Benzene-d6	0.0844	0.0839	0.10		84	84	60-140	0	20
Ethylbenzene-d10	0.0929	0.0916	0.10		93	92	60-140	1.45	20
1,2-DCB-d4	0.0798	0.0777	0.10		80	78	60-140	2.74	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC10, GC16  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112308  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112308  
 1510B22-001AMS/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	0.0356	0.0050	0.050	-	71	53-116
Benzene	ND	0.0488	0.0050	0.050	-	98	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.123	0.050	0.20	-	62	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0467	0.0050	0.050	-	93	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0433	0.0040	0.050	-	87	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0434	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0481	0.0050	0.050	-	96	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC10, GC16  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112308  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112308  
 1510B22-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0442	0.0050	0.050	-	88	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0409	0.0050	0.050	-	82	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0396	0.0050	0.050	-	79	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0487	0.0050	0.050	-	97	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0526	0.0050	0.050	-	105	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC10, GC16  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112308  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112308  
 1510B22-001AMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	0.106	0.108		0.12	85	86	70-130
Toluene-d8	0.121	0.108		0.12	97	86	70-130
4-BFB	0.0113	0.00943		0.012	90	75	70-130
Benzene-d6	0.0968	0.0905		0.10	97	91	60-140
Ethylbenzene-d10	0.103	0.101		0.10	103	101	60-140
1,2-DCB-d4	0.0717	0.0837		0.10	72	84	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0335	0.0345	0.050	ND	67,F1	69,F1	70-130	2.74	20
Benzene	0.0450	0.0448	0.050	ND	90	90	70-130	0	20
t-Butyl alcohol (TBA)	0.119	0.117	0.20	ND	59,F1	58,F1	70-130	1.66	20
Chlorobenzene	0.0431	0.0425	0.050	ND	86	85	70-130	1.37	20
1,2-Dibromoethane (EDB)	0.0404	0.0411	0.050	ND	81	82	70-130	1.76	20
1,2-Dichloroethane (1,2-DCA)	0.0404	0.0417	0.050	ND	81	83	70-130	3.15	20
1,1-Dichloroethene	0.0440	0.0435	0.050	ND	88	87	70-130	1.37	20
Diisopropyl ether (DIPE)	0.0407	0.0410	0.050	ND	81	82	70-130	0.713	20
Ethyl tert-butyl ether (ETBE)	0.0382	0.0387	0.050	ND	76	77	70-130	1.16	20
Methyl-t-butyl ether (MTBE)	0.0371	0.0378	0.050	ND	74	76	70-130	1.87	20
Toluene	0.0439	0.0438	0.050	ND	88	87	70-130	0.433	20
Trichloroethene	0.0488	0.0479	0.050	ND	98	96	70-130	1.76	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	0.108	0.110	0.12		86	88	70-130	1.99	20
Toluene-d8	0.106	0.107	0.12		85	85	70-130	0	20
4-BFB	0.00950	0.00955	0.012		76	76	70-130	0	20
Benzene-d6	0.0844	0.0839	0.10		84	84	60-140	0	20
Ethylbenzene-d10	0.0929	0.0916	0.10		93	92	60-140	1.45	20
1,2-DCB-d4	0.0798	0.0777	0.10		80	78	60-140	2.74	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112348  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112348  
 1510B31-006DMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	8.23	0.50	10	-	82	54-140
Benzene	ND	9.80	0.50	10	-	98	47-158
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	29.5	2.0	40	-	74	42-140
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	8.82	0.50	10	-	88	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	7.89	0.50	10	-	79	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.58	0.50	10	-	96	66-125
1,1-Dichloroethene	ND	9.04	0.50	10	-	90	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112348  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112348  
 1510B31-006DMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	10.2	0.50	10	-	102	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.19	0.50	10	-	92	55-137
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	8.66	0.50	10	-	87	53-139
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	8.89	0.50	10	-	89	52-137
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	8.78	0.50	10	-	88	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC16  
**Matrix:** Water  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112348  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112348  
 1510B31-006DMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	22.5	22.7		25	90	91	70-130
Toluene-d8	22.5	22.3		25	90	89	70-130
4-BFB	2.06	2.30		2.5	82	92	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	8.32	8.57	10	ND	83	86	69-139	2.93	20
Benzene	9.56	9.62	10	ND	96	96	69-141	0	20
t-Butyl alcohol (TBA)	31.9	33.4	40	ND	80	84	41-152	4.73	20
Chlorobenzene	8.67	8.62	10	ND	87	86	77-120	0.577	20
1,2-Dibromoethane (EDB)	8.33	8.37	10	ND	83	84	76-135	0.541	20
1,2-Dichloroethane (1,2-DCA)	9.39	9.59	10	ND	94	96	73-139	2.09	20
1,1-Dichloroethene	8.71	8.71	10	ND	87	87	59-140	0	20
Diisopropyl ether (DIPE)	9.86	10.1	10	ND	99	101	72-140	2.76	20
Ethyl tert-butyl ether (ETBE)	8.99	9.32	10	ND	90	93	71-140	3.62	20
Methyl-t-butyl ether (MTBE)	9.10	9.34	10	ND	89	91	73-139	2.68	20
Toluene	8.77	8.85	10	ND	86	87	71-128	0.895	20
Trichloroethene	8.74	8.67	10	ND	87	87	64-132	0	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	22.3	22.6	25		89	90	70-130	1.47	20
Toluene-d8	21.9	22.3	25		88	89	70-130	1.87	20
4-BFB	2.08	2.10	2.5		83	84	70-130	0.901	20



CLIENT: Basics Environmental

Work Order: 1510B31

Project: D.W. Nicholson

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 112308

SampleID <b>MB-112308</b>	TestCode: <b>8260gas_s</b>	Units: <b>mg/kg</b>	Prep Date: <b>11/2/2015</b>
Batch ID: <b>112308</b>	TestNo: <b>SW8260B</b>	Run ID: <b>GC10_151109B</b>	Analysis Date: <b>11/2/2015</b>
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual
TPH(g)	ND	0.25	-

**Surrogate Recovery**

Dibromofluoromethane	0.192	0.125	154	70 - 130
Benzene-d6	0.0608	0.1	61	60 - 140

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

CLIENT: Basics Environmental

Work Order: 1510B31

Project: D.W. Nicholson

# ANALYTICAL QC SUMMARY REPORT

BatchID: 112308

SampleID	LCS-112308	TestCode:	8260gas_s	Units:	mg/kg	Prep Date:	11/2/2015			
Batch ID:	112308	TestNo:	SW8260B	Run ID:	GC10_151109B	Analysis Date:	11/2/2015			
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual

VOC (C6-C12)	2.80	0.25	3.2	0	87	74 - 142				
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### Surrogate Recovery

Dibromofluoromethane	0.182		0.125		146	70 - 130				
Benzene-d6	0.111		0.1		111	60 - 140				

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

CLIENT: Basics Environmental

Work Order: 1510B31

Project: D.W. Nicholson

# ANALYTICAL QC SUMMARY REPORT

BatchID: 112348

SampleID <b>MB-112348</b>	TestCode: <b>8260GAS_W</b>	Units: <b>µg/L</b>	Prep Date: <b>11/2/2015</b>
Batch ID: <b>112348</b>	TestNo: <b>SW8260B</b>	Run ID: <b>GC16_151103B</b>	Analysis Date: <b>11/2/2015</b>
Analyte	Result	PQL SPKValue SPKRefVal %REC Limits	RPDRefVal %RPD RPDLimit Qual

TPH(g)	ND	50	-						
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### Surrogate Recovery

Dibromofluoromethane	23.2	25	93	70 - 130
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**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

CLIENT: Basics Environmental

Work Order: 1510B31

Project: D.W. Nicholson

# ANALYTICAL QC SUMMARY REPORT

BatchID: 112348

SampleID <b>LCS-112348</b>	TestCode: <b>8260GAS_W</b>	Units: <b>µg/L</b>	Prep Date: <b>11/2/2015</b>							
Batch ID: <b>112348</b>	TestNo: <b>SW8260B</b>	Run ID: <b>GC16_151103B</b>	Analysis Date: <b>11/2/2015</b>							
Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
VOC (C6-C12)	454	50	644	0	70	75 - 105				S
<b>Surrogate Recovery</b>										
Dibromofluoromethane	23.7		25		95	70 - 130				

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 11/2/15  
**Instrument:** ICP-MS1  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112226  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112226  
 1510B09-001AMS/MSD

### QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	48.0	0.50	50	-	96	75-125
Arsenic	ND	49.6	0.50	50	-	99	75-125
Barium	ND	508	5.0	500	-	102	75-125
Beryllium	ND	52.2	0.50	50	-	104	75-125
Cadmium	ND	49.5	0.25	50	-	99	75-125
Chromium	ND	49.0	0.50	50	-	98	75-125
Cobalt	ND	49.8	0.50	50	-	100	75-125
Copper	ND	50.8	0.50	50	-	102	75-125
Lead	ND	47.6	0.50	50	-	95	75-125
Mercury	ND	1.18	0.050	1.25	-	94	75-125
Molybdenum	ND	47.8	0.50	50	-	96	75-125
Nickel	ND	50.8	0.50	50	-	102	75-125
Selenium	ND	50.8	0.50	50	-	102	75-125
Silver	ND	46.8	0.50	50	-	94	75-125
Thallium	ND	45.3	0.50	50	-	91	75-125
Vanadium	ND	47.8	0.50	50	-	96	75-125
Zinc	ND	511	5.0	500	-	102	75-125
<b>Surrogate Recovery</b>							
Terbium	522	523		500	104	105	70-130

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 11/2/15  
**Instrument:** ICP-MS1  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112226  
**Extraction Method:** SW3050B  
**Analytical Method:** SW6020  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112226  
 1510B09-001AMS/MSD

### QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	46.8	49.8	50	ND	93	99	75-125	6.23	20
Arsenic	47.0	51.9	50	2.347	89	99	75-125	9.76	20
Barium	592	638	500	83.58	102	111	75-125	7.52	20
Beryllium	48.5	52.1	50	0.5960	96	103	75-125	7.16	20
Cadmium	49.2	52.6	50	ND	98	105	75-125	6.54	20
Chromium	138	143	50	83.07	110	120	75-125	3.49	20
Cobalt	55.3	64.7	50	9.331	92	111	75-125	15.6	20
Copper	82.6	86.3	50	36.28	93	100	75-125	4.32	20
Lead	51.1	54.3	50	4.505	93	100	75-125	6.10	20
Mercury	1.24	1.34	1.25	0.05600	95	103	75-125	7.68	20
Molybdenum	47.8	51.1	50	ND	95	101	75-125	6.70	20
Nickel	139	143	50	89.00	100	109	75-125	3.19	20
Selenium	45.5	50.6	50	ND	91	101	75-125	10.7	20
Silver	46.2	49.4	50	ND	92	99	75-125	6.73	20
Thallium	45.7	48.0	50	ND	91	96	75-125	4.87	20
Vanadium	110	118	50	63.67	92	108	75-125	6.96	20
Zinc	552	583	500	61.32	98	104	75-125	5.55	20
<b>Surrogate Recovery</b>									
Terbium	516	561	500		103	112	70-130	8.30	20



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/29/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC7  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112210  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112210  
 1510A70-011AMS/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	0.512	0.40	0.60	-	85	70-130
MTBE	ND	0.0911	0.050	0.10	-	91	70-130
Benzene	ND	0.0968	0.0050	0.10	-	97	70-130
Toluene	ND	0.0891	0.0050	0.10	-	89	70-130
Ethylbenzene	ND	0.0971	0.0050	0.10	-	97	70-130
Xylenes	ND	0.299	0.0050	0.30	-	100	70-130

**Surrogate Recovery**

2-Fluorotoluene	0.106	0.114		0.10	106	114	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.495	0.486	0.60	ND	82	81	70-130	1.74	20
MTBE	0.0823	0.0927	0.10	ND	82	93	70-130	11.9	20
Benzene	0.0926	0.0943	0.10	ND	93	94	70-130	1.77	20
Toluene	0.0866	0.0870	0.10	ND	87	87	70-130	0	20
Ethylbenzene	0.0940	0.0952	0.10	ND	94	95	70-130	1.20	20
Xylenes	0.290	0.303	0.30	ND	97	101	70-130	4.52	20

**Surrogate Recovery**

2-Fluorotoluene	0.112	0.113	0.10		112	113	70-130	0.515	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/31/15  
**Date Analyzed:** 10/31/15  
**Instrument:** GC3  
**Matrix:** Water  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112289  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8021B/8015Bm  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112289  
 1510A45-021AMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	59.7	40	60	-	100	70-130
MTBE	ND	10.6	5.0	10	-	106	70-130
Benzene	ND	9.66	0.50	10	-	97	70-130
Toluene	ND	9.73	0.50	10	-	97	70-130
Ethylbenzene	ND	9.85	0.50	10	-	98	70-130
Xylenes	ND	29.9	0.50	30	-	100	70-130

**Surrogate Recovery**

aaa-TFT	9.18	9.44		10	92	94	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	61.1	59.4	60	ND	102	99	70-130	2.87	20
MTBE	9.62	9.68	10	ND	96	97	70-130	0.669	20
Benzene	10.3	10.1	10	ND	103	101	70-130	2.50	20
Toluene	10.4	10.0	10	ND	102	99	70-130	3.28	20
Ethylbenzene	10.5	10.2	10	ND	105	102	70-130	2.92	20
Xylenes	31.9	31.1	30	ND	106	104	70-130	2.34	20

**Surrogate Recovery**

aaa-TFT	9.40	9.45	10		94	94	70-130	0	20
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## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/30/15  
**Date Analyzed:** 10/31/15  
**Instrument:** GC2A, GC2B  
**Matrix:** Soil  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112262  
**Extraction Method:** SW3550B  
**Analytical Method:** SW8015B  
**Unit:** mg/Kg  
**Sample ID:** MB/LCS-112262  
 1510B22-001AMS/MSD

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

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	48.2	1.0	40	-	120	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
<b>Surrogate Recovery</b>							
C9	24.4	23.9		25	98	96	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)	55.2	62.0	40	17.06	95	112	70-130	11.7	30
<b>Surrogate Recovery</b>									
C9	23.7	23.7	25		95	95	70-130	0	30

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 10/30/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC11A, GC6B  
**Matrix:** Water  
**Project:** D.W. Nicholson

**WorkOrder:** 1510B31  
**BatchID:** 112264  
**Extraction Method:** SW3510C  
**Analytical Method:** SW8015B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112264

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

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1080	50	1000	-	108	61-157
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-
<b>Surrogate Recovery</b>							
C9	631	598		625	101	96	65-122



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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1510B31

ClientCode: BEO

WaterTrax     WriteOn     EDF     Excel     EQulS     Email     HardCopy     ThirdParty     J-flag

**Report to:**

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

Email: basics@aol.com  
cc/3rd Party:  
PO:  
ProjectNo: D.W. Nicholson

**Bill to:**

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

**Requested TAT: 5 days;**

*Date Received: 10/30/2015*  
*Date Printed: 10/30/2015*

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1510B31-001	SB-3b-5	Soil	10/29/2015 12:20	<input type="checkbox"/>			A							A		A	
1510B31-003	SB-2-2	Soil	10/29/2015 13:25	<input type="checkbox"/>		A		A		A		A					A
1510B31-006	SB-2-W	Water	10/29/2015 14:05	<input type="checkbox"/>	B				D		D				C		

**Test Legend:**

1	1664A_W	2	5520E_S	3	8010BMS_S	4	8260B_S
5	8260B_W	6	8260GAS_S	7	8260GAS_W	8	CAM17MS_S
9	G-MBTEX_S	10	G-MBTEX_W	11	TPH(DMO)_S	12	TPH_S

The following SamplIDs: 003A, 006D contain testgroup.

**Prepared by: Briana Cutino**

**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.



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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1510B31

ClientCode: BEO

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

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

Email: basics@aol.com  
 cc/3rd Party:  
 PO:  
 ProjectNo: D.W. Nicholson

**Bill to:**

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

**Requested TAT: 5 days;**

*Date Received: 10/30/2015*  
*Date Printed: 10/30/2015*

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					13	14	15	16	17	18	19	20	21	22	23	24	
1510B31-001	SB-3b-5	Soil	10/29/2015 12:20	<input type="checkbox"/>													
1510B31-003	SB-2-2	Soil	10/29/2015 13:25	<input type="checkbox"/>													
1510B31-006	SB-2-W	Water	10/29/2015 14:05	<input type="checkbox"/>	A												

**Test Legend:**

13	TPH_W	14		15		16	
17		18		19		20	
21		22		23		24	

The following SamplIDs: 003A, 006D contain testgroup.

**Prepared by: Briana Cutino**

**Comments:**

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



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510B31

**Project:** D.W. Nicholson

**Client Contact:** Donovan Tom

**Date Received:** 10/30/2015

**Comments:**

**Contact's Email:** basics@aol.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510B31-001A	SB-3b-5	Soil	SW8015B (Diesel & Motor Oil)	1	Acetate Liner	<input type="checkbox"/>	10/29/2015 12:20	5 days		<input type="checkbox"/>	
			SW8021B/8015Bm (G/MBTEX)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (HVOCs List)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1510B31-002A	SB-3b-8	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 12:20			<input checked="" type="checkbox"/>	
1510B31-003A	SB-2-2	Soil	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Diesel (C10-C23)_sv, TPH-Kerosene (C9-C18), TPH-Motor Oil (C18-C36)>	1	Acetate Liner	<input type="checkbox"/>	10/29/2015 13:25	5 days		<input type="checkbox"/>	
			SW6020 (CAM 17)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			TPH(g) & 8260 (Basic List) by P&T GCMS			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SW8260B (VOCs)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
			SM5520B (O&G w/o S.G. Clean-Up)			<input type="checkbox"/>		5 days		<input type="checkbox"/>	
1510B31-004A	SB-2-5	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 13:30			<input checked="" type="checkbox"/>	
1510B31-005A	SB-2-10	Soil		1	Acetate Liner	<input type="checkbox"/>	10/29/2015 13:35			<input checked="" type="checkbox"/>	
1510B31-006A	SB-2-W	Water	SW8015B (TEPHs) <TPH-Bunker Oil (C10-C36), TPH-Diesel (C10-C23), TPH-Kerosene (C9-C18), TPH-Motor Oil (C18-C36)>	2	aVOA	<input type="checkbox"/>	10/29/2015 14:05	5 days	None	<input type="checkbox"/>	

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



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510B31

**Project:** D.W. Nicholson

**Client Contact:** Donovan Tom

**Date Received:** 10/30/2015

**Comments:**

**Contact's Email:** basics@aol.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510B31-006B	SB-2-W	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	<input type="checkbox"/>	10/29/2015 14:05	5 days	None	<input type="checkbox"/>	
1510B31-006C	SB-2-W	Water	SW8021B/8015Bm (G/MBTEX) <Benzene_2, Ethylbenzene_2, MTBE_2, Toluene_2, TPH(g)_1, TPH(ss)_1, Xylenes_2>	2	VOA w/ HCl	<input type="checkbox"/>	10/29/2015 14:05	5 days	None	<input type="checkbox"/>	
1510B31-006D	SB-2-W	Water	TPH(g) & 8260 (Basic List) by P&T GCMS	2	VOA w/ HCl	<input type="checkbox"/>	10/29/2015 14:05	5 days	None	<input type="checkbox"/>	

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





### Sample Receipt Checklist

Client Name: **Basics Environmental** Date and Time Received: **10/30/2015 5:31:39 PM**  
 Project Name: **D.W. Nicholson** LogIn Reviewed by: **Briana Cutino**  
 WorkOrder No: **1510B31** Matrix: Soil/Water Carrier: Benjamin Yslas (MAI Courier)

#### Chain of Custody (COC) Information

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

#### Sample Receipt Information

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

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

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

#### UCMR3 Samples:

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

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

-----  
 Comments:





# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1510B39

**Report Created for:** Basics Environmental

655 12th Street, Suite 126  
Oakland, CA 94607

**Project Contact:** Lita Freeman

**Project P.O.:**

**Project Name:** DW Nicholson

**Project Received:** 10/30/2015

Analytical Report reviewed & approved for release on 11/05/2015 by:

Angela Rydelius,  
Laboratory Manager

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## Glossary of Terms & Qualifier Definitions

**Client:** Basics Environmental  
**Project:** DW Nicholson  
**WorkOrder:** 1510B39

### Glossary Abbreviation

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



## Case Narrative

**Client:** Basics Environmental

**Project:** DW Nicholson

**Work Order:** 1510B39

November 05, 2015

### TO-15 ANALYSIS

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

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

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



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-SG	1510B39-001A	SoilGas	10/30/2015 10:25	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.09	26.10	MW

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	11/02/2015 16:32

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-SG	1510B39-002A	SoilGas	10/30/2015 10:02	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.26	24.42	MW

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	11/02/2015 15:12

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3a-SG	1510B39-003A	SoilGas	10/30/2015	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.96	25.83	MW

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	11/03/2015 22:36

(Cont.)



# Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

## Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-SG	1510B39-004A	SoilGas	10/30/2015 09:35	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.53	24.58	MW

Analytes	Result	RL	DF	Date Analyzed
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	11/03/2015 23:16



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**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-SG	1510B39-001A	SoilGas	10/30/2015 10:25	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.09	26.10	MW

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	11/02/2015 16:32
Acrolein	ND	5.8	1	11/02/2015 16:32
Acrylonitrile	ND	1.1	1	11/02/2015 16:32
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/02/2015 16:32
Benzene	37	1.6	1	11/02/2015 16:32
Benzyl chloride	ND	2.6	1	11/02/2015 16:32
Bromodichloromethane	ND	3.5	1	11/02/2015 16:32
Bromoform	ND	5.2	1	11/02/2015 16:32
Bromomethane	3.4	2.0	1	11/02/2015 16:32
1,3-Butadiene	ND	1.1	1	11/02/2015 16:32
2-Butanone (MEK)	79	75	1	11/02/2015 16:32
t-Butyl alcohol (TBA)	ND	31	1	11/02/2015 16:32
Carbon Disulfide	39	1.6	1	11/02/2015 16:32
Carbon Tetrachloride	ND	3.2	1	11/02/2015 16:32
Chlorobenzene	ND	2.4	1	11/02/2015 16:32
Chloroethane	2.3	1.3	1	11/02/2015 16:32
Chloroform	34	2.4	1	11/02/2015 16:32
Chloromethane	1.8	1.0	1	11/02/2015 16:32
Cyclohexane	43	18	1	11/02/2015 16:32
Dibromochloromethane	ND	4.4	1	11/02/2015 16:32
1,2-Dibromo-3-chloropropane	ND	0.12	1	11/02/2015 16:32
1,2-Dibromoethane (EDB)	ND	3.9	1	11/02/2015 16:32
1,2-Dichlorobenzene	ND	3.0	1	11/02/2015 16:32
1,3-Dichlorobenzene	ND	3.0	1	11/02/2015 16:32
1,4-Dichlorobenzene	ND	3.0	1	11/02/2015 16:32
Dichlorodifluoromethane	ND	2.5	1	11/02/2015 16:32
1,1-Dichloroethane	ND	2.0	1	11/02/2015 16:32
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/02/2015 16:32
1,1-Dichloroethene	2.9	2.0	1	11/02/2015 16:32
cis-1,2-Dichloroethene	330	2.0	1	11/02/2015 16:32
trans-1,2-Dichloroethene	6.1	2.0	1	11/02/2015 16:32
1,2-Dichloropropane	ND	2.4	1	11/02/2015 16:32
cis-1,3-Dichloropropene	ND	2.3	1	11/02/2015 16:32

(Cont.)



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**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-SG	1510B39-001A	SoilGas	10/30/2015 10:25	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.09	26.10	MW

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	11/02/2015 16:32
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/02/2015 16:32
Diisopropyl ether (DIPE)	ND	2.1	1	11/02/2015 16:32
1,4-Dioxane	ND	1.8	1	11/02/2015 16:32
Ethanol	ND	96	1	11/02/2015 16:32
Ethyl acetate	ND	1.8	1	11/02/2015 16:32
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/02/2015 16:32
Ethylbenzene	18	2.2	1	11/02/2015 16:32
4-Ethyltoluene	7.3	2.5	1	11/02/2015 16:32
Freon 113	ND	3.9	1	11/02/2015 16:32
Heptane	67	21	1	11/02/2015 16:32
Hexachlorobutadiene	ND	5.4	1	11/02/2015 16:32
Hexane	54	18	1	11/02/2015 16:32
2-Hexanone	7.2	2.1	1	11/02/2015 16:32
4-Methyl-2-pentanone (MIBK)	26	2.1	1	11/02/2015 16:32
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/02/2015 16:32
Methylene chloride	ND	8.8	1	11/02/2015 16:32
Methyl methacrylate	ND	2.1	1	11/02/2015 16:32
Naphthalene	ND	5.3	1	11/02/2015 16:32
Propene	ND	88	1	11/02/2015 16:32
Styrene	ND	2.2	1	11/02/2015 16:32
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/02/2015 16:32
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/02/2015 16:32
Tetrachloroethene	ND	3.4	1	11/02/2015 16:32
Tetrahydrofuran	ND	3.0	1	11/02/2015 16:32
Toluene	110	1.9	1	11/02/2015 16:32
1,2,4-Trichlorobenzene	ND	3.8	1	11/02/2015 16:32
1,1,1-Trichloroethane	ND	2.8	1	11/02/2015 16:32
1,1,2-Trichloroethane	ND	2.8	1	11/02/2015 16:32
Trichloroethene	37	2.8	1	11/02/2015 16:32
Trichlorofluoromethane	ND	2.8	1	11/02/2015 16:32
1,2,4-Trimethylbenzene	9.5	2.5	1	11/02/2015 16:32
1,3,5-Trimethylbenzene	4.2	2.5	1	11/02/2015 16:32

(Cont.)



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**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-SG	1510B39-001A	SoilGas	10/30/2015 10:25	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.09	26.10	MW

Analytes	Result	RL	DF	Date Analyzed
Vinyl Acetate	ND	18	1	11/02/2015 16:32
Vinyl Chloride	3.4	1.3	1	11/02/2015 16:32
Xylenes, Total	88	6.6	1	11/02/2015 16:32

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	78	70-130	11/02/2015 16:32
Toluene-d8	95	70-130	11/02/2015 16:32
4-BFB	109	70-130	11/02/2015 16:32

(Cont.)





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**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-SG	1510B39-002A	SoilGas	10/30/2015 10:02	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.26	24.42	MW

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	11/02/2015 15:12
Acrolein	ND	5.8	1	11/02/2015 15:12
Acrylonitrile	ND	1.1	1	11/02/2015 15:12
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/02/2015 15:12
Benzene	8.2	1.6	1	11/02/2015 15:12
Benzyl chloride	ND	2.6	1	11/02/2015 15:12
Bromodichloromethane	ND	3.5	1	11/02/2015 15:12
Bromoform	ND	5.2	1	11/02/2015 15:12
Bromomethane	3.7	2.0	1	11/02/2015 15:12
1,3-Butadiene	ND	1.1	1	11/02/2015 15:12
2-Butanone (MEK)	ND	75	1	11/02/2015 15:12
t-Butyl alcohol (TBA)	ND	31	1	11/02/2015 15:12
Carbon Disulfide	2.0	1.6	1	11/02/2015 15:12
Carbon Tetrachloride	ND	3.2	1	11/02/2015 15:12
Chlorobenzene	ND	2.4	1	11/02/2015 15:12
Chloroethane	ND	1.3	1	11/02/2015 15:12
Chloroform	12	2.4	1	11/02/2015 15:12
Chloromethane	ND	1.0	1	11/02/2015 15:12
Cyclohexane	ND	18	1	11/02/2015 15:12
Dibromochloromethane	ND	4.4	1	11/02/2015 15:12
1,2-Dibromo-3-chloropropane	0.24	0.12	1	11/02/2015 15:12
1,2-Dibromoethane (EDB)	ND	3.9	1	11/02/2015 15:12
1,2-Dichlorobenzene	ND	3.0	1	11/02/2015 15:12
1,3-Dichlorobenzene	ND	3.0	1	11/02/2015 15:12
1,4-Dichlorobenzene	ND	3.0	1	11/02/2015 15:12
Dichlorodifluoromethane	3.3	2.5	1	11/02/2015 15:12
1,1-Dichloroethane	ND	2.0	1	11/02/2015 15:12
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/02/2015 15:12
1,1-Dichloroethene	4.4	2.0	1	11/02/2015 15:12
cis-1,2-Dichloroethene	ND	2.0	1	11/02/2015 15:12
trans-1,2-Dichloroethene	ND	2.0	1	11/02/2015 15:12
1,2-Dichloropropane	ND	2.4	1	11/02/2015 15:12
cis-1,3-Dichloropropene	ND	2.3	1	11/02/2015 15:12

(Cont.)



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**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-SG	1510B39-002A	SoilGas	10/30/2015 10:02	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.26	24.42	MW

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	11/02/2015 15:12
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/02/2015 15:12
Diisopropyl ether (DIPE)	ND	2.1	1	11/02/2015 15:12
1,4-Dioxane	ND	1.8	1	11/02/2015 15:12
Ethanol	ND	96	1	11/02/2015 15:12
Ethyl acetate	ND	1.8	1	11/02/2015 15:12
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/02/2015 15:12
Ethylbenzene	6.1	2.2	1	11/02/2015 15:12
4-Ethyltoluene	3.8	2.5	1	11/02/2015 15:12
Freon 113	98	3.9	1	11/02/2015 15:12
Heptane	ND	21	1	11/02/2015 15:12
Hexachlorobutadiene	ND	5.4	1	11/02/2015 15:12
Hexane	ND	18	1	11/02/2015 15:12
2-Hexanone	ND	2.1	1	11/02/2015 15:12
4-Methyl-2-pentanone (MIBK)	19	2.1	1	11/02/2015 15:12
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/02/2015 15:12
Methylene chloride	11	8.8	1	11/02/2015 15:12
Methyl methacrylate	ND	2.1	1	11/02/2015 15:12
Naphthalene	ND	5.3	1	11/02/2015 15:12
Propene	ND	88	1	11/02/2015 15:12
Styrene	ND	2.2	1	11/02/2015 15:12
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/02/2015 15:12
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/02/2015 15:12
Tetrachloroethene	6.1	3.4	1	11/02/2015 15:12
Tetrahydrofuran	ND	3.0	1	11/02/2015 15:12
Toluene	31	1.9	1	11/02/2015 15:12
1,2,4-Trichlorobenzene	ND	3.8	1	11/02/2015 15:12
1,1,1-Trichloroethane	350	2.8	1	11/02/2015 15:12
1,1,2-Trichloroethane	ND	2.8	1	11/02/2015 15:12
Trichloroethene	55	2.8	1	11/02/2015 15:12
Trichlorofluoromethane	340	2.8	1	11/02/2015 15:12
1,2,4-Trimethylbenzene	5.6	2.5	1	11/02/2015 15:12
1,3,5-Trimethylbenzene	ND	2.5	1	11/02/2015 15:12

(Cont.)



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**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-SG	1510B39-002A	SoilGas	10/30/2015 10:02	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.26	24.42	MW

Analytes	Result	RL	DF	Date Analyzed
Vinyl Acetate	ND	18	1	11/02/2015 15:12
Vinyl Chloride	ND	1.3	1	11/02/2015 15:12
Xylenes, Total	<b>28</b>	6.6	1	11/02/2015 15:12
Surrogates	REC (%)	Limits		Date Analyzed
1,2-DCA-d4	74	70-130		11/02/2015 15:12
Toluene-d8	87	70-130		11/02/2015 15:12
4-BFB	105	70-130		11/02/2015 15:12



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**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3a-SG	1510B39-003A	SoilGas	10/30/2015	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.96	25.83	MW

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	11/03/2015 22:36
Acrolein	ND	5.8	1	11/03/2015 22:36
Acrylonitrile	ND	1.1	1	11/03/2015 22:36
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/03/2015 22:36
Benzene	32	1.6	1	11/03/2015 22:36
Benzyl chloride	ND	2.6	1	11/03/2015 22:36
Bromodichloromethane	4.0	3.5	1	11/03/2015 22:36
Bromoform	ND	5.2	1	11/03/2015 22:36
Bromomethane	2.7	2.0	1	11/03/2015 22:36
1,3-Butadiene	2.5	1.1	1	11/03/2015 22:36
2-Butanone (MEK)	ND	75	1	11/03/2015 22:36
t-Butyl alcohol (TBA)	ND	31	1	11/03/2015 22:36
Carbon Disulfide	ND	1.6	1	11/03/2015 22:36
Carbon Tetrachloride	ND	3.2	1	11/03/2015 22:36
Chlorobenzene	ND	2.4	1	11/03/2015 22:36
Chloroethane	ND	1.3	1	11/03/2015 22:36
Chloroform	46	2.4	1	11/03/2015 22:36
Chloromethane	ND	1.0	1	11/03/2015 22:36
Cyclohexane	26	18	1	11/03/2015 22:36
Dibromochloromethane	ND	4.4	1	11/03/2015 22:36
1,2-Dibromo-3-chloropropane	ND	0.12	1	11/03/2015 22:36
1,2-Dibromoethane (EDB)	ND	3.9	1	11/03/2015 22:36
1,2-Dichlorobenzene	ND	3.0	1	11/03/2015 22:36
1,3-Dichlorobenzene	ND	3.0	1	11/03/2015 22:36
1,4-Dichlorobenzene	ND	3.0	1	11/03/2015 22:36
Dichlorodifluoromethane	4.9	2.5	1	11/03/2015 22:36
1,1-Dichloroethane	ND	2.0	1	11/03/2015 22:36
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/03/2015 22:36
1,1-Dichloroethene	4.7	2.0	1	11/03/2015 22:36
cis-1,2-Dichloroethene	1800	20	10	11/03/2015 07:35
trans-1,2-Dichloroethene	26	2.0	1	11/03/2015 22:36
1,2-Dichloropropane	ND	2.4	1	11/03/2015 22:36
cis-1,3-Dichloropropene	ND	2.3	1	11/03/2015 22:36

(Cont.)



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**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3a-SG	1510B39-003A	SoilGas	10/30/2015	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.96	25.83	MW

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	11/03/2015 22:36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/03/2015 22:36
Diisopropyl ether (DIPE)	ND	2.1	1	11/03/2015 22:36
1,4-Dioxane	ND	1.8	1	11/03/2015 22:36
Ethanol	ND	96	1	11/03/2015 22:36
Ethyl acetate	ND	1.8	1	11/03/2015 22:36
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/03/2015 22:36
Ethylbenzene	45	2.2	1	11/03/2015 22:36
4-Ethyltoluene	17	2.5	1	11/03/2015 22:36
Freon 113	ND	3.9	1	11/03/2015 22:36
Heptane	52	21	1	11/03/2015 22:36
Hexachlorobutadiene	ND	5.4	1	11/03/2015 22:36
Hexane	23	18	1	11/03/2015 22:36
2-Hexanone	ND	2.1	1	11/03/2015 22:36
4-Methyl-2-pentanone (MIBK)	9.4	2.1	1	11/03/2015 22:36
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/03/2015 22:36
Methylene chloride	ND	8.8	1	11/03/2015 22:36
Methyl methacrylate	ND	2.1	1	11/03/2015 22:36
Naphthalene	ND	5.3	1	11/03/2015 22:36
Propene	ND	88	1	11/03/2015 22:36
Styrene	2.5	2.2	1	11/03/2015 22:36
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/03/2015 22:36
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/03/2015 22:36
Tetrachloroethene	1200	3.4	1	11/03/2015 22:36
Tetrahydrofuran	ND	3.0	1	11/03/2015 22:36
Toluene	210	1.9	1	11/03/2015 22:36
1,2,4-Trichlorobenzene	ND	3.8	1	11/03/2015 22:36
1,1,1-Trichloroethane	14	2.8	1	11/03/2015 22:36
1,1,2-Trichloroethane	ND	2.8	1	11/03/2015 22:36
Trichloroethene	160	2.8	1	11/03/2015 22:36
Trichlorofluoromethane	ND	2.8	1	11/03/2015 22:36
1,2,4-Trimethylbenzene	43	2.5	1	11/03/2015 22:36
1,3,5-Trimethylbenzene	15	2.5	1	11/03/2015 22:36

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3a-SG	1510B39-003A	SoilGas	10/30/2015	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.96	25.83	MW

Analytes	Result	RL	DF	Date Analyzed
Vinyl Acetate	ND	18	1	11/03/2015 22:36
Vinyl Chloride	5.4	1.3	1	11/03/2015 22:36
Xylenes, Total	220	6.6	1	11/03/2015 22:36
Surrogates	REC (%)	Limits		Date Analyzed
1,2-DCA-d4	78	70-130		11/03/2015 22:36
Toluene-d8	98	70-130		11/03/2015 22:36
4-BFB	103	70-130		11/03/2015 22:36

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-SG	1510B39-004A	SoilGas	10/30/2015 09:35	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.33	24.58	MW

Analytes	Result	RL	DF	Date Analyzed
Acetone	130	60	1	11/03/2015 23:16
Acrolein	ND	5.8	1	11/03/2015 23:16
Acrylonitrile	ND	1.1	1	11/03/2015 23:16
tert-Amyl methyl ether (TAME)	ND	2.1	1	11/03/2015 23:16
Benzene	12	1.6	1	11/03/2015 23:16
Benzyl chloride	ND	2.6	1	11/03/2015 23:16
Bromodichloromethane	7.3	3.5	1	11/03/2015 23:16
Bromoform	ND	5.2	1	11/03/2015 23:16
Bromomethane	ND	2.0	1	11/03/2015 23:16
1,3-Butadiene	ND	1.1	1	11/03/2015 23:16
2-Butanone (MEK)	ND	75	1	11/03/2015 23:16
t-Butyl alcohol (TBA)	ND	31	1	11/03/2015 23:16
Carbon Disulfide	ND	1.6	1	11/03/2015 23:16
Carbon Tetrachloride	ND	3.2	1	11/03/2015 23:16
Chlorobenzene	ND	2.4	1	11/03/2015 23:16
Chloroethane	ND	1.3	1	11/03/2015 23:16
Chloroform	56	2.4	1	11/03/2015 23:16
Chloromethane	ND	1.0	1	11/03/2015 23:16
Cyclohexane	ND	18	1	11/03/2015 23:16
Dibromochloromethane	ND	4.4	1	11/03/2015 23:16
1,2-Dibromo-3-chloropropane	ND	0.12	1	11/03/2015 23:16
1,2-Dibromoethane (EDB)	ND	3.9	1	11/03/2015 23:16
1,2-Dichlorobenzene	ND	3.0	1	11/03/2015 23:16
1,3-Dichlorobenzene	ND	3.0	1	11/03/2015 23:16
1,4-Dichlorobenzene	ND	3.0	1	11/03/2015 23:16
Dichlorodifluoromethane	ND	2.5	1	11/03/2015 23:16
1,1-Dichloroethane	ND	2.0	1	11/03/2015 23:16
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	11/03/2015 23:16
1,1-Dichloroethene	ND	2.0	1	11/03/2015 23:16
cis-1,2-Dichloroethene	ND	2.0	1	11/03/2015 23:16
trans-1,2-Dichloroethene	ND	2.0	1	11/03/2015 23:16
1,2-Dichloropropane	ND	2.4	1	11/03/2015 23:16
cis-1,3-Dichloropropene	ND	2.3	1	11/03/2015 23:16

(Cont.)



## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-SG	1510B39-004A	SoilGas	10/30/2015 09:35	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.33	24.58	MW

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	11/03/2015 23:16
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	11/03/2015 23:16
Diisopropyl ether (DIPE)	ND	2.1	1	11/03/2015 23:16
1,4-Dioxane	ND	1.8	1	11/03/2015 23:16
Ethanol	ND	96	1	11/03/2015 23:16
Ethyl acetate	ND	1.8	1	11/03/2015 23:16
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	11/03/2015 23:16
Ethylbenzene	31	2.2	1	11/03/2015 23:16
4-Ethyltoluene	20	2.5	1	11/03/2015 23:16
Freon 113	ND	3.9	1	11/03/2015 23:16
Heptane	ND	21	1	11/03/2015 23:16
Hexachlorobutadiene	ND	5.4	1	11/03/2015 23:16
Hexane	ND	18	1	11/03/2015 23:16
2-Hexanone	ND	2.1	1	11/03/2015 23:16
4-Methyl-2-pentanone (MIBK)	9.5	2.1	1	11/03/2015 23:16
Methyl-t-butyl ether (MTBE)	ND	1.8	1	11/03/2015 23:16
Methylene chloride	18	8.8	1	11/03/2015 23:16
Methyl methacrylate	ND	2.1	1	11/03/2015 23:16
Naphthalene	ND	5.3	1	11/03/2015 23:16
Propene	ND	88	1	11/03/2015 23:16
Styrene	ND	2.2	1	11/03/2015 23:16
1,1,1,2-Tetrachloroethane	ND	3.5	1	11/03/2015 23:16
1,1,2,2-Tetrachloroethane	ND	3.5	1	11/03/2015 23:16
Tetrachloroethene	ND	3.4	1	11/03/2015 23:16
Tetrahydrofuran	5.7	3.0	1	11/03/2015 23:16
Toluene	97	1.9	1	11/03/2015 23:16
1,2,4-Trichlorobenzene	ND	3.8	1	11/03/2015 23:16
1,1,1-Trichloroethane	11	2.8	1	11/03/2015 23:16
1,1,2-Trichloroethane	ND	2.8	1	11/03/2015 23:16
Trichloroethene	ND	2.8	1	11/03/2015 23:16
Trichlorofluoromethane	7.1	2.8	1	11/03/2015 23:16
1,2,4-Trimethylbenzene	51	2.5	1	11/03/2015 23:16
1,3,5-Trimethylbenzene	22	2.5	1	11/03/2015 23:16

(Cont.)





## Analytical Report

**Client:** Basics Environmental  
**Date Received:** 10/30/15 19:42  
**Date Prepared:** 11/2/15-11/3/15  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** µg/m<sup>3</sup>

### Volatile Organic Compounds in µg/m<sup>3</sup>

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-SG	1510B39-004A	SoilGas	10/30/2015 09:35	GC24	112302

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.33	24.58	MW

Analytes	Result	RL	DF	Date Analyzed
Vinyl Acetate	ND	18	1	11/03/2015 23:16
Vinyl Chloride	ND	1.3	1	11/03/2015 23:16
Xylenes, Total	<b>160</b>	6.6	1	11/03/2015 23:16
Surrogates	REC (%)	Limits		Date Analyzed
1,2-DCA-d4	77	70-130		11/03/2015 23:16
Toluene-d8	95	70-130		11/03/2015 23:16
4-BFB	99	70-130		11/03/2015 23:16



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC24  
**Matrix:** Soilgas  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**BatchID:** 112302  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** nL/L  
**Sample ID:** MB/LCS-112302

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	2.5	-	-	-	-
Acrolein	ND	22.0	0.25	25	-	88	60-140
Acrylonitrile	ND	25.0	0.050	25	-	100	60-140
tert-Amyl methyl ether (TAME)	ND	25.6	0.050	25	-	102	60-140
Benzene	ND	24.3	0.050	25	-	97	60-140
Benzyl chloride	ND	27.7	0.050	25	-	111	60-140
Bromodichloromethane	ND	20.3	0.050	25	-	81	60-140
Bromoform	ND	22.2	0.050	25	-	89	60-140
Bromomethane	ND	26.1	0.050	25	-	104	60-140
1,3-Butadiene	ND	22.3	0.050	25	-	89	60-140
2-Butanone (MEK)	ND	-	2.5	-	-	-	-
t-Butyl alcohol (TBA)	ND	22.2	1.0	25	-	89	60-140
Carbon Disulfide	ND	26.4	0.050	25	-	105	60-140
Carbon Tetrachloride	ND	23.8	0.050	25	-	95	60-140
Chlorobenzene	ND	26.3	0.050	25	-	105	60-140
Chloroethane	ND	27.4	0.050	25	-	110	60-140
Chloroform	ND	19.4	0.050	25	-	78	60-140
Chloromethane	ND	19.7	0.050	25	-	79	60-140
Cyclohexane	ND	24.6	0.50	25	-	99	60-140
Dibromochloromethane	ND	23.6	0.050	25	-	94	60-140
1,2-Dibromo-3-chloropropane	ND	20.9	0.0012	25	-	84	60-140
1,2-Dibromoethane (EDB)	ND	25.4	0.050	25	-	102	60-140
1,2-Dichlorobenzene	ND	27.5	0.050	25	-	110	60-140
1,3-Dichlorobenzene	ND	26.6	0.050	25	-	106	60-140
1,4-Dichlorobenzene	ND	25.1	0.050	25	-	100	60-140
Dichlorodifluoromethane	ND	22.2	0.050	25	-	89	60-140
1,1-Dichloroethane	ND	22.2	0.050	25	-	89	60-140
1,2-Dichloroethane (1,2-DCA)	ND	18.7	0.050	25	-	75	60-140
1,1-Dichloroethene	ND	21.2	0.050	25	-	85	60-140
cis-1,2-Dichloroethene	ND	23.8	0.050	25	-	95	60-140
trans-1,2-Dichloroethene	ND	21.0	0.050	25	-	84	60-140
1,2-Dichloropropane	ND	23.1	0.050	25	-	93	60-140
cis-1,3-Dichloropropene	ND	24.2	0.050	25	-	97	60-140
trans-1,3-Dichloropropene	ND	24.7	0.050	25	-	99	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	22.2	0.050	25	-	89	60-140
Diisopropyl ether (DIPE)	ND	24.0	0.050	25	-	96	60-140
1,4-Dioxane	ND	26.2	0.050	25	-	105	60-140

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC24  
**Matrix:** Soilgas  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**BatchID:** 112302  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** nL/L  
**Sample ID:** MB/LCS-112302

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	-	5.0	-	-	-	-
Ethyl acetate	ND	26.2	0.050	25	-	105	60-140
Ethyl tert-butyl ether (ETBE)	ND	24.0	0.050	25	-	96	60-140
Ethylbenzene	ND	23.6	0.050	25	-	94	60-140
4-Ethyltoluene	ND	26.2	0.050	25	-	105	60-140
Freon 113	ND	21.0	0.050	25	-	84	60-140
Heptane	ND	26.9	0.50	25	-	108	60-140
Hexachlorobutadiene	ND	27.8	0.050	25	-	111	60-140
Hexane	ND	23.5	0.50	25	-	94	60-140
2-Hexanone	ND	25.3	0.050	25	-	101	60-140
4-Methyl-2-pentanone (MIBK)	ND	27.1	0.050	25	-	109	60-140
Methyl-t-butyl ether (MTBE)	ND	22.8	0.050	25	-	91	60-140
Methylene chloride	ND	21.8	0.25	25	-	87	60-140
Methyl methacrylate	ND	30.2	0.050	25	-	121	60-140
Naphthalene	ND	64.3	0.10	50	-	129	60-140
Propene	ND	-	5.0	-	-	-	-
Styrene	ND	24.8	0.050	25	-	99	60-140
1,1,1,2-Tetrachloroethane	ND	22.3	0.050	25	-	89	60-140
1,1,2,2-Tetrachloroethane	ND	22.9	0.050	25	-	92	60-140
Tetrachloroethene	ND	25.4	0.050	25	-	102	60-140
Tetrahydrofuran	ND	26.5	0.10	25	-	106	60-140
Toluene	ND	25.6	0.050	25	-	103	60-140
1,2,4-Trichlorobenzene	ND	32.4	0.050	25	-	130	60-140
1,1,1-Trichloroethane	ND	23.5	0.050	25	-	94	60-140
1,1,2-Trichloroethane	ND	25.3	0.020	25	-	101	60-140
Trichloroethene	ND	23.5	0.050	25	-	94	60-140
Trichlorofluoromethane	ND	22.0	0.050	25	-	88	60-140
1,2,4-Trimethylbenzene	ND	27.1	0.050	25	-	108	60-140
1,3,5-Trimethylbenzene	ND	26.4	0.050	25	-	106	60-140
Vinyl Acetate	ND	28.2	0.50	25	-	113	60-140
Vinyl Chloride	ND	20.7	0.050	25	-	83	60-140
Xylenes, Total	ND	70.2	0.15	75	-	94	60-140

(Cont.)



## Quality Control Report

**Client:** Basics Environmental  
**Date Prepared:** 11/2/15  
**Date Analyzed:** 11/2/15  
**Instrument:** GC24  
**Matrix:** Soilgas  
**Project:** DW Nicholson

**WorkOrder:** 1510B39  
**BatchID:** 112302  
**Extraction Method:** TO15  
**Analytical Method:** TO15  
**Unit:** nL/L  
**Sample ID:** MB/LCS-112302

### QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
1,2-DCA-d4	84.4	378		500	84	76	70-130
Toluene-d8	94.7	484		500	95	97	70-130
4-BFB	100	485		500	100	97	70-130



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

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1510B39

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: basicsenvironmental@gmail.com;  
PO:  
ProjectNo: DW Nicholson

**Bill to:**

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

**Requested TAT: 5 days;**

**Date Received: 10/30/2015**

**Date Printed: 11/04/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1510B39-001	SB-1-SG	SoilGas	10/30/2015 10:25	<input type="checkbox"/>	A	A	A	A									
1510B39-002	SB-2-SG	SoilGas	10/30/2015 10:02	<input type="checkbox"/>	A	A	A	A									
1510B39-003	SB-3a-SG	SoilGas	10/30/2015	<input type="checkbox"/>	A	A	A	A									
1510B39-004	SB-4-SG	SoilGas	10/30/2015 9:35	<input type="checkbox"/>	A	A	A	A									

**Test Legend:**

1	TO15_Scan-SIM_SOIL(UG/M3)	2	TO15-8260_SOIL(UG/M3)	3	TO15-LC_SOIL(UG/M3)	4	TO15-LC8260_SOIL(UG/M3)
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.



## WORK ORDER SUMMARY

**Client Name:** BASICS ENVIRONMENTAL

**QC Level:** LEVEL 2

**Work Order:** 1510B39

**Project:** DW Nicholson

**Client Contact:** Lita Freeman

**Date Received:** 10/30/2015

**Comments:**

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

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510B39-001A	SB-1-SG	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa	<input type="checkbox"/>	10/30/2015 10:25	5 days		<input type="checkbox"/>	
1510B39-002A	SB-2-SG	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa	<input type="checkbox"/>	10/30/2015 10:02	5 days		<input type="checkbox"/>	
1510B39-003A	SB-3a-SG	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa	<input type="checkbox"/>	10/30/2015	5 days		<input type="checkbox"/>	
1510B39-004A	SB-4-SG	SoilGas	TO15 for Soil Vapor (Scan-SIM)	1	1L Summa	<input type="checkbox"/>	10/30/2015 9:35	5 days		<input type="checkbox"/>	

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

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



# McC Campbell Analytical, Inc.

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

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH  1 Day  2 Day  3 Day  5 DAY   
 GeoTracker EDF  PDF  EDD  EQuIS  10 DAY   
 UST Clean Up Fund Project  Claim #

Report To: Donavan Tom + Lita Freeman Bill To: Basics Environmental

Company: Basics Environmental Report to

655 12th St, Ste 126 basicsenvironmental@gmail.com

Oakland, CA 94607 E-Mail: LitaFreeman@gmail.com

Tele: (916) 677-9897 Fax: (510) 834-9099

Project #: Project Name: DW Nicholson

Project Location: 24747 Clavitch Rd, Hayward

Sampler Signature: Lita Freeman

### 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 ~~PA~~ PFA

Field Sample ID (Location)	Collection		Canister SN#	Manifold 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-difluoroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other:	Matrix		Cannister Pressure/ Vacuum	
	Date	Time														Soilgas	Indoor Air	Initial	Final
SB-1-SG	10/30/15	1025	7509-857	316-680	X											X		-30 at 1015	-4.5 at 1025
SB-2-SG	10/30/15	1002	6170-756	316-1324	X											X		-29 at 0955	-4.5 at 1002
SB-3a-SG	10/30/15		6407-794	316-828	X											X		-30 at 1047	-4.5 at 1053
SB-4-SG	10/30/15	0935	7520-868	316-1330	X											X		-28 at 0928	-4.5 at 0935

Relinquished By: Lita Freeman Date: 10/30/15 Time: 1055 Received By: [Signature]

Relinquished By: [Signature] Date: 10/30 Time: 1710 Received By: [Signature]

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Temp (°C): \_\_\_\_\_ Work Order #: \_\_\_\_\_  
 Condition: \_\_\_\_\_  
 Custody Seals Intact?: Yes \_\_\_\_\_ No \_\_\_\_\_ None \_\_\_\_\_  
 Shipped Via: \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **Basics Environmental** Date and Time Received: **10/30/2015 7:42:42 PM**  
 Project Name: **DW Nicholson** LogIn Reviewed by: **Jena Alfaro**  
 WorkOrder No: **1510B39** Matrix: SoilGas Carrier: Benjamin Yslas (MAI Courier)

#### Chain of Custody (COC) Information

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

#### Sample Receipt Information

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

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

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

#### UCMR3 Samples:

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

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

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 Comments: