

# INITIAL SOIL AND GROUNDWATER SITE CHARACTERIZATION REPORT

CIRCLE K STORE #2706049  
6006 WEST CLEARWATER AVENUE  
KENNEWICK, WASHINGTON

PREPARED FOR:



CIRCLE K STORES INC.  
255 EAST RINCON, STE. 100  
CORONA, CALIFORNIA 92879

SUBMITTED TO:

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
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PREPARED BY:



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BLAES PROJECT #202-06049-03

JANUARY 21, 2020

This Initial *Soil and Groundwater Site Characterization Report* has been prepared by Blaes Environmental Management, Inc. for the exclusive use of Circle K Stores Inc. as it pertains to Circle K Store #2706049 located at 6006 West Clearwater Avenue in Kennewick, Washington. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists, engineers, and environmental consultants practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report. *Any use of or reliance on this report by a third party shall be at such a party's sole risk.*

Blaes Environmental Management, Inc. can offer no assurances and assumes no responsibility for site conditions or activities outside the scope of the inquiry requested by Circle K Stores Inc. as outlined in this document. It should be understood by all parties that Blaes Environmental Management, Inc. has relied on the accuracy of documents, oral information, and other materials, services, and information provided by Circle K Stores Inc., subcontractors, and other associated parties. Any subsequent modification, revision or verification of this report must be provided in writing by Blaes Environmental Management, Inc.

All work associated with this project will be performed under the supervision of a State of Washington Licensed Geologist/Hydrogeologist.

Prepared By:  
Blaes Environmental Management, Inc.



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Blaes Project #202-06049-03

January 21, 2020



Daniel Michael Blaes

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## **1.0 INTRODUCTION**

This report was prepared by Blaes Environmental Management, Inc. (Blaes Environmental), on behalf of Circle K Stores Inc. (Circle K) for Circle K Store #2706049 located at 6006 West Clearwater Avenue in Kennewick, Washington (Figure 1). The initial site characterization program was conducted in response to detections of petroleum hydrocarbon concentrations in soil found below the underground storage tank zone and near the underground storage tank zone and one of the dispenser islands during a real estate due diligence drilling program conducted at the former Sunmart #30 property (now Circle K #2706049) in 2012.

In August 2012, Blaes Environmental conducted a subsurface Environmental Due Diligence Site Assessment Program at the former Sunmart #30 site prior to the purchase by Circle K. The Site Assessment Program involved drilling and collecting soil samples from one soil boring adjacent to the underground storage tank (UST) basin and hand augering angled soil borings and collecting soil samples adjacent to the nine existing dispenser islands.

Based on the Site Assessment Program findings, Blaes Environmental confirmed through laboratory analysis the presence of gasoline (GRO) and diesel fuel (DRO) hydrocarbon concentrations as well as volatile organic concentrations (VOCs) in the soil below the existing underground storage tanks and below the eastern side of the underground storage tank zone and fuel dispenser pumps at the site. A petroleum hydrocarbon release notification was filed with the Washington Department of Ecology (WDOE) by Sun Pacific Energy (owner of the Sunmart store) based on the results of that investigation.

In response to the WDOE notification, Circle K conducted this initial site characterization program at the property to determine the vertical and lateral extent of petroleum hydrocarbon concentrations in the soil and groundwater at the site. The site characterization program included permitting and drilling two soil borings adjacent to dispensers D-1/2 and D-7/8, installation of one groundwater monitoring well adjacent to the UST area (MW-1), installation of one groundwater monitoring well near dispenser D-7/8, installation of additional vapor extraction wells, monitoring well development and surveying, soil and groundwater sample collection and laboratory analysis, and preparation of a site characterization report documenting the activities.

## **2.0 BACKGROUND INFORMATION**

This section presents information regarding the site and provides a summary of the site background. The information was obtained from public records, the project files of Blaes Environmental, and the records of Circle K.

### **2.1 SITE LOCATION AND LAND USE**

The property is located on the northwest corner of the intersection of Clearwater Avenue and Kellogg Street in Kennewick, Washington. The property is within Section 32, Township 9 North, Range 29 East of the Pasco Washington U.S. Geological Survey 7 ½ -minute Topographic Quadrangle. The property consists of a concrete and asphalt-paved lot with one existing single-story building (the Sunmart Store) and nine dispenser pumps. The site features are shown on the Site Plan in Figure 2. The site is positioned at a latitude of approximately 46 degrees, 12 minutes, 58.58 seconds north and a longitude of approximately 119 degrees, 12 minutes, 09.75 seconds west as measured on Google Earth 2013.

The area surrounding the site consists of a mixture of vacant property, commercial businesses, and residential development. The commercial business Windermere Real Estate is located directly north of the site and east (across Kellogg Street) is American West Bank. A residential development is located across West Clearwater Avenue south of the site. A natural gas distribution station and a parcel of vacant land are located west of the site.

### **2.2 SITE PHYSIOGRAPHY**

The property lies at an elevation of approximately 527 feet above Mean Sea Level (Google Earth 2013). Natural surface drainage in the area is towards the northeast (U.S. Geological Survey 7 ½ -minute Topographic Quadrangle). On-site drainage is predominantly towards the south and east away from the building and fuel canopy structures and into the streets.

### **2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY**

The site is located within the Columbia Basin, also known as the Columbia Plateau, which is a vast area in eastern Washington, southwestern Idaho, and northern Oregon. The physiographic province is characterized by incised rivers, extensive plateaus, and anticlinal ridges rising to 4,000 feet above sea level. The region is underlain by Miocene Columbia River Basalt Group rocks and interbedded Neogene terrestrial sediments.

Data about what lies under the Columbia River basalts are sparse. Along the Idaho border south of Spokane, steptoes that once were mountain tops consist of Precambrian Belt Supergroup sedimentary rocks and metamorphosed Cretaceous granites. These mountains were enveloped by Miocene basalts so that only the summits remain above the lava flows. Deeply weathered granites support a clay mining industry, and a cassiterite deposit is known just south of Spokane.

Even less is known about the pre-Miocene basement in the central and western parts of the Columbia Basin. The only information available is from seven petroleum exploration wells that have penetrated the basalt and from projections of geology from the margins of the basin. Along the margins, Paleogene fault-bounded basins are filled with thick sequences of arkose, volcanoclastic rocks, and coal. Drilling has demonstrated that in a general way these sedimentary basins extend southward under the Columbia River basalts. The subsurface geology changes near the Snake River. A 1987 exploratory well drilled 20 miles northeast of Pasco penetrated a thin Paleogene crystal tuff section before encountering Triassic or Jurassic chloritic metamorphic rocks at an approximate depth of 8,000 feet.

The Columbia basin province is best defined by the areal extent of the Miocene Columbia River Basalt Group rocks. These basalts, which are present in the Blue Mountain uplift as well as in the Columbia Basin, cover 36 percent of the entire state. The group consists of four flood basalt formations, starting with the Imnaha Basalt at 17.5 Ma, followed by the Grande Ronde Basalt (16.5 to 15.6 Ma), the Wanapum Basalt (15.6 to 14.5 Ma), and lastly the Saddle Mountains Basalt (14.5 to 6 Ma). On the basis of geophysical evidence, the basalts are known to reach a maximum thickness of 16,000 feet in the Pasco Basin.

The greatest volume of basalts was erupted before 15.5 Ma. Within the Grande Ronde Basalt, individual flows exceed 480 cubic miles (2,000 km<sup>3</sup>) in volume. The flows were extruded from vents and northwest-trending fissures east of Pasco and in the southeast corner of the state. The flows were extremely fluid, and as a result a number of them reached the Pacific Ocean via the ancestral Columbia River drainage.

During the Pliocene and the Pleistocene, gravel, sand, silt, and clay were deposited in lakes or by aggrading streams and rivers in depressions such as the Pasco Basin, where 1,000 feet of sediment lies

on top of the basalt. Glacial outwash during the Pleistocene produced huge volumes of wind-blown silt called loess. It blankets much of the Columbia Basin and in places is up to 200 feet thick.

The Columbia Basin was the scene of the greatest catastrophic floods ever documented in the geologic record. The Pleistocene Cordilleran ice sheet advanced south into Idaho, damming the Clark Fork River at the Montana border. A huge impoundment, called Lake Missoula, formed. The lake had the volume of present-day Lake Michigan and was 2,000 feet deep at the dam. The ice dam repeatedly gave way between 12,700 and 15,300 years ago, releasing waters that caused unprecedented flooding. Water raced down the Spokane Valley and spread out over the Columbia Basin. The maximum flow rate was estimated at 15 cubic miles (62.5 km<sup>3</sup>) per hour, a rate 15 times the combined flow of all the rivers of the world. During the floods the surface of the land was greatly modified. Anastomosing channels were cut through the loess blanket and into basalt, leaving a jumbled topography of coulees, buttes, mesas, dry water falls, hanging valleys, and giant ripples. These geomorphic features are known collectively as the Channeled Scablands. The events are called the Great Spokane Floods.

#### 2.4 SENSITIVE RECEPTORS

The Columbia River is located approximately 6,200 feet northeast of the site. There are no surface water bodies or wetlands within one-mile of the site. The KGH Physician Clinics facility is located approximately 4,350 feet west-southwest of the site. The Kamiakin High School and the Edison Elementary School are located approximately 3,800 feet east-northeast and 4,100 feet southeast of the site, respectively. The Fresenius Medical Care facility is located approximately 5,200 feet west-southwest of the site. The Save Harbor Crisis Nursery is located approximately 2,500 feet northeast of the site. A residential development is located across West Clearwater Avenue south of the site.

#### 2.5 PREVIOUS INVESTIGATIONS

Previous investigations conducted at the site include the Environmental Due Diligence Site Assessment conducted in August 2012. The objectives of the Site Assessment Program were to gather geologic and hydrogeologic data from the site to evaluate whether or not petroleum hydrocarbon constituents exist at specific locations in the subsurface soil at the site. The Site Assessment Program involved drilling and collecting soil and groundwater samples from one soil boring adjacent to the UST basin and hand augering nine angled soil borings and collecting soil samples adjacent to the existing dispenser islands.

Based on the Site Assessment Program findings, Blaes Environmental confirmed, through laboratory analysis, the presence of GRO, DRO, and VOC concentrations in the samples collected from the soil boring adjacent to the location of the USTs. Volatile petroleum hydrocarbons constituents including GRO, DRO, and VOCs were also found in the soil below/near dispensers D-1/2 and D-7/8 at the site. A copy of the Due Diligence Report is included in Appendix A.

## 2.6 SITE LITHOLOGY AND DEPTH TO GROUNDWATER

Based on soil samples collected from borings and monitor well boreholes drilled during this drilling program, subsurface soils consist predominantly of cobbles, gravel, and sand from the ground surface to the total depth of the boring at approximately 148 feet below ground surface (bgs). This site is extremely difficult drilling due to the large cobbles and gravel throughout the soil column. Groundwater was found at a depth of approximately 128 feet below the ground surface during the investigation.

### **3.0 SITE CHARACTERIZATION PROGRAM**

The site characterization program involved drilling two shallow soil borings adjacent to dispensers D-1/2 and D-7/8 to determine the vertical extent of petroleum hydrocarbons in soil beneath these dispensers. In addition, the program will include one soil boring and subsequent installation of two groundwater monitoring wells adjacent to the UST area and adjacent to Dispenser 7/8 to determine if there are petroleum hydrocarbon concentrations in groundwater beneath the site that exceed State of Washington MTCA regulatory cleanup levels.

The site characterization program included: 1) regulatory permitting to drill the borings deeper than 10 feet and install two groundwater monitoring wells; 2) drilling, soil sampling, and well installation; 3) well development and surveying; 4) collection and laboratory analysis of soil and groundwater samples from the borings and monitoring well; and 5) the preparation of a site characterization report documenting the activities. Details of the proposed site characterization program are provided in the following sections.

#### **3.1 SOIL BORING AND WELL PERMITTING**

Blaes Environmental prepared the required permits for drilling the proposed soil borings and groundwater monitoring wells. The permits were obtained by Cascade Drilling from the appropriate agency, kept on site during all drilling operations.

#### **3.2 SITE-SPECIFIC HEALTH AND SAFETY PLAN**

Prior to initiating field activities, Blaes Environmental produced a site-specific health and safety plan (HASP) for the site. The HASP includes a list of potential chemical and physical hazards, health and safety policies and practices, and emergency contingencies, including contact information for police, medical, and fire. A copy of the HASP was kept on-site during all field activities. Before initiating field activities each day, Blaes Environmental conducted a health and safety meeting and the HASP was reviewed and signed by all personnel and subcontractors. The HASP conformed to OSHA HAZWOPER requirements (29 CFR 1910.120).

#### **3.3 UNDERGROUND UTILITY LOCATION/CLEARING AND STORE NOTIFICATION**

An underground utility locator service was contracted to mark underground utilities at the site that may be present near the proposed drilling locations. The utility survey was completed within one week prior

to conducting field work. Prior to drilling, the drilling crew cleared the boring location with hand tools to a depth of approximately five feet bgs. This was performed as a precautionary measure to minimize the possibility of accidental damage to existing underground utilities.

Concurrent with the utility line locating process, Blaes Environmental contacted the store manager 48 hours prior to drilling at the site. Blaes Environmental described the Site Assessment Program's scope of work to the store manager and indicated that Blaes Environmental and the drilling contractor would work diligently to minimize the impact to the business during the subsurface investigation.

### 3.4 DRILLING AND WELL INSTALLATION

The site characterization program involved the drilling of two soil borings (B-2 and B-3) adjacent to dispensers D-1/2 and D-7/8). The objective was to determine the vertical extent of petroleum hydrocarbons in soil beneath these dispensers.

The site assessment program also involved the drilling of one soil boring and subsequent installation of a groundwater monitoring well (using a compaction air and sonic drill rig to drill through the gravel and cobbles) adjacent to and northeast of the UST area to determine if there are petroleum hydrocarbon concentrations in groundwater beneath the site. The assessment also included the installation of a second groundwater monitoring well next to the Dispenser 7/8 area. The approximate soil boring and groundwater monitoring well locations are shown on Figure 2 and figure 3. The tasks to complete the site assessment are presented in the following sections.

#### 3.4.1 Soil Boring Drilling and Sampling

Cascade Drilling L.P. of Woodinville, Washington was contracted to drill the soil borings in the dispenser area and next to the underground storage tanks initially using a hollow-stem auger drill rig. On July 11, 2013 soil borings B-2 and B-3 were drilled to depths of approximately 20 feet and 32 feet bgs, respectively. B-2 was drilled to the northeast of dispensers D-1/2 and B-3 was drilled to the northeast of dispenser D-7/8. Both boring were drilled as close to the target dispenser as the dispenser canopy would allow. Note: drilling was attempted with a limited access rig at a location just southeast of D-1/2 resulting in auger refusal at 5 feet, Cascade then switched to a full sized rig and drilled B-2 and B-3 just beyond the coverage of the dispenser canopy. A vapor extraction well (VE-1A) was installed within boring B-3.

Due to difficult drilling conditions, Cascade switched to both air rotary and Sonic drilling techniques to drill the additional borings need to install the groundwater monitoring wells and vapor extraction wells. Wells MW-1 and MW-2 were drilled and installed during the period of September 19-25, 2013. Soil borings/vapor wells VE-1B and VE-2 were drilled and installed from May 28-30, 2014. Additional vapor extraction wells VE-3 and VE-4 were drilled and installed on June 1-2, 2016. The soil lithologic logs are presented in Appendix B. The well completion diagrams are included in Appendix C.

During the various drilling events, soil samples were collected at period intervals (usually ten-foot depth intervals) beginning at a depth of approximately 10 to 15 feet below the ground surface. Soil samples were collected using a combination of a modified California split-spoon soil sampler and drive assembly. The soil samples were logged using the Unified Soil Classification System (USCS) and were screened using a calibrated photo-ionization detector (PID) to detect for the presence of VOCs. In addition to the PID measurements, Blaes Environmental logged the number of blow counts needed to sample at each sample horizon and prepare a lithologic log for each boring.

Upon sample collection, the sample sleeve was removed from the split spoon sampler. A small quantity of soil was subsequently removed from the sleeve using a Terra Core "T" sampler and added to a laboratory supplied vial containing methanol in accordance with sampling guidelines for Environmental Protection Agency (EPA) Method 5035. A second quantity of soil was removed from the sleeve and placed into a laboratory-supplied glass sample jar. Both the methanol vials and glass jars were labeled with pertinent project information, placed in sealable plastic bags, and placed on ice in a cooler. A written record of each sample was entered onto a chain-of-custody record for transport to TestAmerica in Seattle, Washington for laboratory analysis.

#### 3.4.2 Laboratory Analysis of Soil Samples

Soil samples collected during the initial site characterization program were delivered by Blaes Environmental, under proper chain-of-custody record, to TestAmerica in Seattle, Washington (with assistance from the Test America laboratory in Richland, Washington). Soil samples from the soil borings were analyzed for various analytes including a combination of NWTPH-GX volatile GRO, NWTPH-DX semi-volatile DRO, and for VOCs including Benzene, Toluene, Ethylbenzene, & Total Xylenes (BTEX) and fuel oxygenates including methyl-tert butyl ether (MTBE), among other analytes, according to EPA Method 8260. Select soil samples were also analyzed for EDB using EPA method 8260. The laboratory results and a copy of the laboratory report (including quality control/quality assurance documentation,

and chain-of-custody record) are included Table 1 and in Appendix D. The approximate lateral extent of petroleum hydrocarbons in the soil at the site is shown on Figure 4.

#### 3.4.3 Monitoring Well Drilling and Installation

The soil boring drilled near the UST zone at the site and the boring next to Dispenser 7/8 were converted into groundwater monitoring wells MW-1 and MW-2, respectively. The approximate location of each well is shown on Figure 3. The monitoring well casing were 4-inch diameter Schedule 40 PVC and were constructed with 0.020-inch slotted well screen installed from approximately 48 feet to 148 feet bgs. The remainder of the well will consist of blank casing to the ground surface. A sand pack will be placed in the annular space between the slotted well casing and the borehole wall from the bottom of the boring to approximately two foot above the screened interval. A 5-foot layer of hydrated bentonite will be placed on top of the sand pack. The remaining annular space in the borehole will be filled with cement grout to the ground surface.

At the ground surface, the groundwater monitoring wells were sealed with a removable cap and the wells were enclosed within a traffic-rated, 12-inch-diameter locking well box that was cemented in place. A diagram of each well is included in Appendix C.

#### 3.4.4 Monitoring Well Development

Following drilling and well installation activities, the groundwater monitoring wells were developed using a surge tool and bailer. Surging and bailing will settle and clean the sand pack and remove sediment from the well. Well development activities will continue until relatively clear water can be purged from the well. Well MW-1 was purged of approximately 45 gallons of water and sediment. Well MW-2 was purged of approximately 50 gallons of sediment and water during the development process. Development water was temporarily stored on-site in properly labeled Department of Transportation (DOT)-approved 55-gallon drums pending profile analysis and disposal.

#### 3.4.5 Monitoring Well Surveying

A licensed land surveyor is scheduled to survey the elevation of the new wells using a local datum or benchmark. The well elevation will be surveyed from a permanent mark on the top of the uncapped PVC well casing. In addition, the longitude and latitude of the new well will be identified to sub-meter accuracy, as applicable. A relative datum was established for each well until the actual survey can be completed at the site. The groundwater depth and relative elevation data is presented in Table 2.

### 3.5 GROUNDWATER MONITORING AND SAMPLING

Blaes Environmental conducted an initial groundwater monitoring and sampling event following the well installation program on December 5, 2013. The initial groundwater monitoring and sampling event consisted of three tasks: 1) measuring the depth to groundwater in the well; 2) purging approximately three casing volumes of water from the well and collecting a groundwater sample; and 3) analyzing the groundwater sample at a State of Washington certified analytical laboratory. A description of each task is presented in the following sections.

#### 3.5.1 Groundwater Depth Measurement

The depth to groundwater in the monitoring well was measured to the nearest 0.01 foot using a groundwater level indicator or an interface probe. The water level measurement probe was washed with a Liquinox™ solution and rinsed with tap water before and after the groundwater depth measurement to prevent cross contamination.

The depth to groundwater was measured from a permanent mark on the top of the uncapped PVC well casing. Using the relative elevation of the well casing at that same mark, Blaes Environmental calculated the relative elevation of groundwater in the well during the monitoring event by subtracting the measured depth to groundwater within the well from the surveyed wellhead elevation. The elevation of the groundwater surface in the well will be integrated into the hydraulic gradient data for the site in the future.

#### 3.5.2 Groundwater Sample Collection

Following well measurements, a groundwater sample was collected from each groundwater monitoring well to evaluate the gasoline concentrations and the dissolved petroleum hydrocarbon Volatile Organic Compound concentrations in the groundwater. The groundwater samples were collected using a dedicated disposable bailer and decanted from the bailer into laboratory supplied sample containers. The sample containers were sealed with Teflon lined caps, labeled, and placed on ice in a cooler. A written record of each sample was entered onto a chain-of-custody document for transport to the analytical laboratory.

A second sampling event was conducted on September 24, 2019 but only involved groundwater monitoring well MW-2.

### 3.5.3 Groundwater Laboratory Analyses

The groundwater samples were delivered to Test America in Seattle, Washington for laboratory analyses. The groundwater samples were analyzed for a combination of NWTPH-GX, and for VOCs including BTEX and fuel oxygenates including and MTB, among other analytes according to EPA Method 8260B. A copy of the analytical results and the laboratory report (including quality control/quality assurance documentation, and chain-of-custody record) are shown in Table 3 and presented in Appendix E.

### 3.5.4 Groundwater Analytical Results

Laboratory analysis of the groundwater samples collected during both groundwater sampling events to date indicated that no hydrocarbon analytes were found at concentrations exceeding MTCA Cleanup Standards.

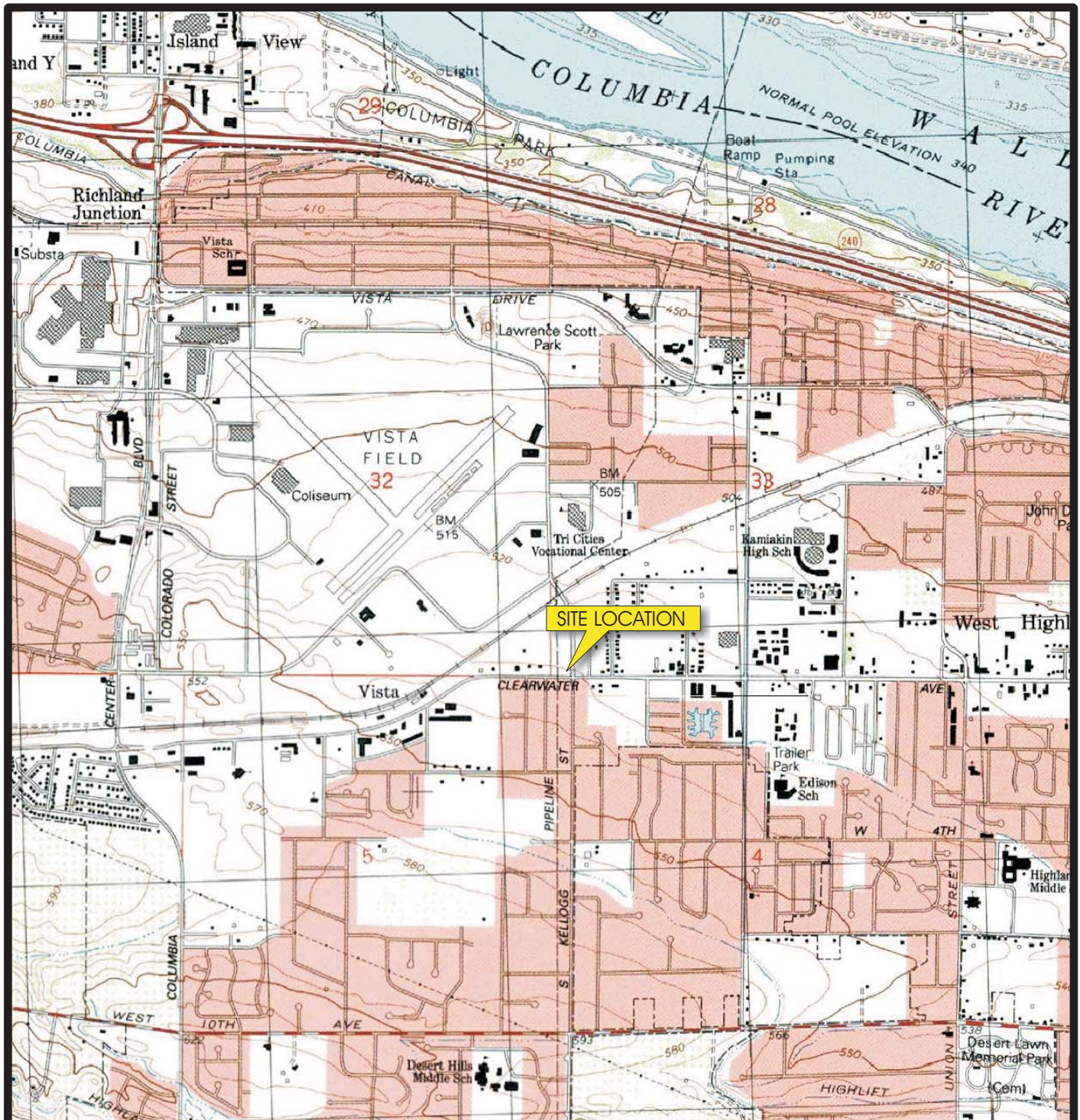
## 3.6 DERIVED WASTE MANAGEMENT

Soil waste generated during the drilling and well installation was stored in DOT-rated 55-gallon drums pending profile analysis and disposal. Following the successful completion of the profiling process, the waste was removed from the site by NRC of Pasco, Washington.

## **REFERENCES**

Lasmanis, Raymond, 1991, The geology of Washington: Rocks and Minerals, v. 66, no. 4, p. 262-277. ©  
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## FIGURES



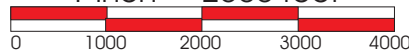
Source: MapTech Terrain Navigator Kennewick Quadrangle, 7.5 Minute Topographic Series, 1992

**QUADRANGLE LOCATION**



Approximate Scale  
1:24,000

1 inch = 2000 feet



Contour Interval = 10 feet



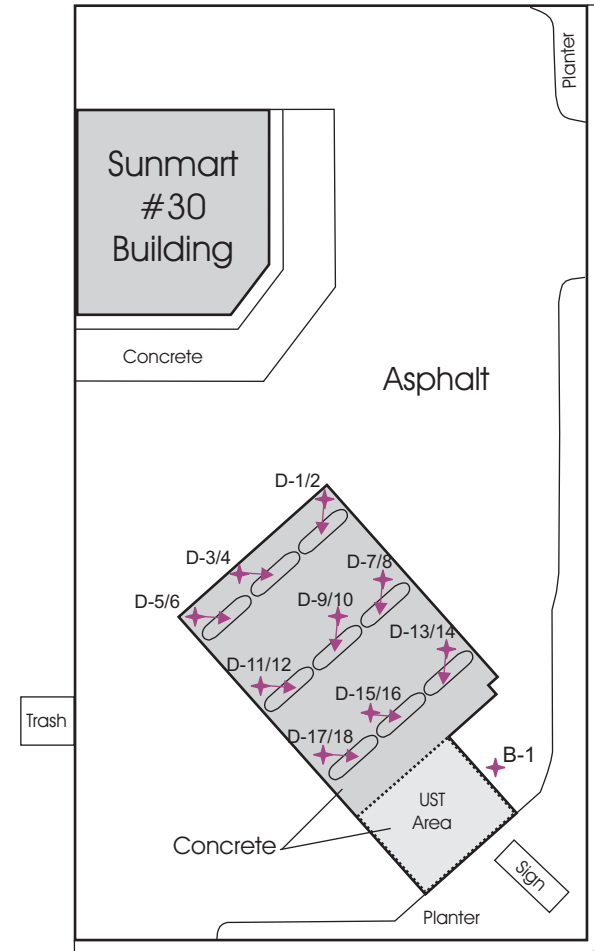
**Circle K Store #2706049**      **SITE**  
**6006 West Clearwater Ave.**      **LOCATION**  
**Kennewick, WA**      **MAP**

April 2013      Project #202-06049-02      Figure 1

**SITE LOCATION: T9N, R29E, Section 32**

46° 12' 46.72" North Latitude; 119° 12' 06.14" West Longitude

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 Kennewick\Graphics\SLM.cdr



Kellogg Street



Clearwater Avenue



Approximate Scale  
1 inch = 60 feet



**Legend**

-  B-1 Approximate location of Soil Boring & ID
-  D-1/2 Approximate location of Angled Soil Boring & ID



**Sunmart #30**  
6006 West Clearwater Avenue  
Kennewick, Washington

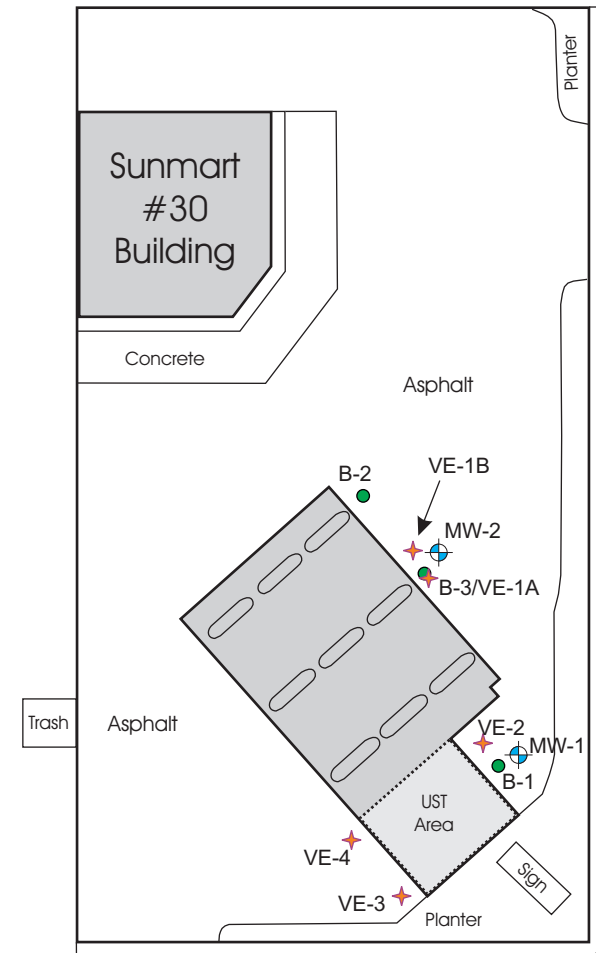
**SITE  
PLAN**

September 2012

Project #201-00001-30

Figure  
2

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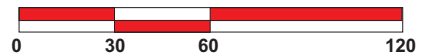


Clearwater Avenue

Kellogg Street

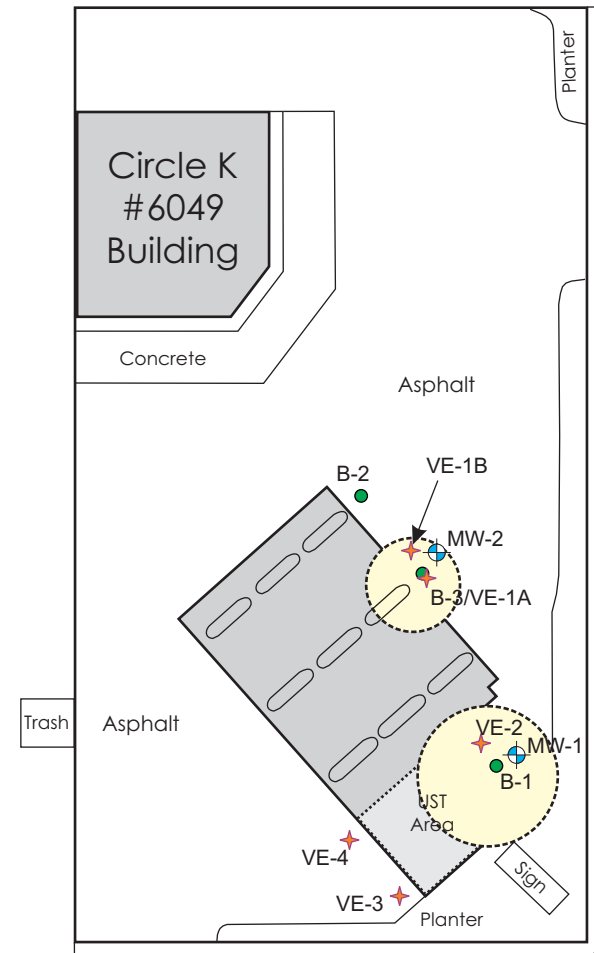


Approximate Scale  
1 inch = 60 feet



Legend	
	Approximate Location of Monitoring Well & ID
	Approximate Location of Soil Borings & ID
	Approximate location of Vapor Extraction Well

<p><b>Circle K Store #2706049 (Former Sunmart #30) 6006 West Clearwater Avenue Kennewick, Washington</b></p>	
<p><b>SITE PLAN</b></p>	
July 2016	Project #202-06049-02
<p>P:\Technical\202CKWashington\202-06049-02\Kennewick\Graphics\SitePlan.cdr</p>	
<p>Figure <b>3</b></p>	

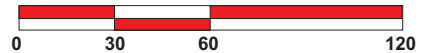


Kellogg Street

Clearwater Avenue



Approximate Scale  
1 inch = 60 feet



Legend	
	Approximate Location of Monitoring Well & ID
	Approximate Location of Soil Borings & ID
	Approximate location of Vapor Extraction Well

<b>Circle K Store #2706049 (Former Sunmart #30)</b> <b>6006 West Clearwater Avenue</b> <b>Kennewick, Washington</b>	
<b>Estimated Lateral Extent of Hydrocarbons in Soil</b>	
July 2016	Project #202-06049-03
P:\Technical\202CKWashington\202-06049-03\Kennewick\Graphics\SitePlan.cdr	
<b>Figure 4</b>	

## TABLES

TABLE 1

## SUMMARY OF SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706049 (former Sunmart #30)  
6006 West Clearwater Avenue  
Kennewick, Washington

Sample ID	Date Collected	NWTPH-GX (mg/Kg)	NWTPH-DX (C10-C24) (mg/Kg)	NWTPH-O (>C24-C36) (mg/Kg)	Lead (mg/Kg)	EPA Method 8260												
						Benzene (ug/Kg)	Toluene (ug/Kg)	Ethylbenzene (ug/Kg)	m&p-Xylenes (ug/Kg)	o-Xylenes (ug/Kg)	MTBE (ug/Kg)	EDB (ug/Kg)	EDC (ug/Kg)	Naph (ug/Kg)	Isoprop (ug/Kg)	1,2,4-TMB (ug/Kg)	1,3,5-TMB (ug/Kg)	Other VOCs (ug/Kg)
B1-20'	8/23/2012	<3.3	<26	<51	NA	<0.91	<1.8	<0.91	<1.8	<0.91	<0.91	<0.91	NA	<4.6	<1.8	<1.8	<4.6	None
B1-35'	8/23/2012	73	<26	<53	NA	<17	<42	<42	130	130	<42	<42	NA	680	<42	4200	1100	4-isopropyltoluene: 35 n-Butylbenzene: 200
B1-40'	8/23/2012	560	250	<58	NA	<16	<41	<41	110	77	<41	<41	MA	15000	<41	4300	830	4-isopropyltoluene: 84 n-Butylbenzene: 1000 n-Propylbenzene: 47 sec-Butylbenzene: 61
B1-45'	8/23/2012	460	270	<49	NA	<14	<36	<36	76	66	<36	<36	NA	17000	<36	1900	420	4-isopropyltoluene: 39 n-Butylbenzene: 1300
B1-55'	8/24/2012	NA	1400	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B1-60'	8/24/2012	1500	340	<51	NA	<13	<32	94	11000	13000	<32	<32	NA	29000	1300	90000	<32	4-isopropyltoluene: 820 n-Butylbenzene: 16000 n-Propylbenzene: 3100 sec-Butylbenzene: 1200
B1-65'	8/24/2012	1100	350	<59	NA	<17	<42	60	10000	7900	<42	<42	NA	29000	970	71000	15000	4-isopropyltoluene: 710 n-Butylbenzene: 6700 n-Propylbenzene: 2300 sec-Butylbenzene: 1000
B1-70'	8/24/2012	130	<26	<53	NA	<15	<37	<37	540	460	<37	<37	NA	2800	60	5200	1600	4-isopropyltoluene: 61 n-Butylbenzene: 1200 n-Propylbenzene: 160 sec-Butylbenzene: 96
B2-10'	7/11/2013	<3.8	<25	<49	NA	<0.98	<2.0	<0.98	7.2	3.2	<0.98	<0.98	<0.98	<4.9	<2.0	<2.0	<4.9	None
B2-15'	7/11/2013	5.5	<24	<48	NA	<0.85	<1.7	<0.85	8.2	3.3	<0.85	<0.85	<0.85	7.9	<1.7	<1.7	<4.3	None
B2-20'	7/11/2013	4.9	<26	<51	NA	<0.83	<1.9	<0.93	11	4.7	<0.93	<0.93	<0.93	17	<1.9	<1.9	<4.7	None
B3-10'	7/12/2013	2000	450	<51	NA	<290	<730	1800	120000	70000	<730	<730	<290	12000	3100	140000	46000	None
B3-15'	7/12/2013	350	120	<50	NA	<15	<38	110	7000	5300	<38	<38	<15	4000	230	21000	6200	N-Butylbenzene: 8800 1,2,3-Trichloropropane: 220
B3-20'	7/12/2013	150	91	<50	NA	<0.86	2.4	5.9	1000	820	<0.86	<0.86	<0.86	3800	<20	4800	1400	4-isopropyltoluene: 35 n-Butylbenzene: 3200 n-Propylbenzene: 55 sec-Butylbenzene: 31
B3-25'	7/12/2013	2100	1100	<49	NA	<280	<690	870	45000	30000	<690	<690	<280	23000	2300	180000	42000	4-isopropyltoluene: 1100 n-Butylbenzene: 57000 n-Propylbenzene: 8700 sec-Butylbenzene: 1600
B3-30'	7/12/2013	2200	420	<50	NA	<220	<550	940	97000	58000	<550	<550	<220	15000	2900	190000	54000	4-isopropyltoluene: 1200 n-Butylbenzene: 46000 n-Propylbenzene: 6600 sec-Butylbenzene: 1800

TABLE 1

SUMMARY OF SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706049 (former Sunmart #30)  
6006 West Clearwater Avenue  
Kennewick, Washington

D-7/8	8/23/2012	25	99	<59	NA	34	500	74	1500	NA	<1.2	NA	NA	520	NA	2300	970	n-Butylbenzene: 390 Propylbenzene: 49
MW1-68'	9/20/2013	6.2	<25	<49	NA	<0.99	<2.0	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	56	<2.0	2.0	<4.9	None
MW1-78'	9/20/2013	500	53	<53	NA	<12	<30	9100	8700	3300	<30	<30	<12	4400	220	30000	10000	4-isopropyltoluene: 370 Methylene Chloride: 73 N-propylbenzene: 340 sec-Butylbenzene: 430
MW1-88'	9/20/2013	12	33	<54	NA	<0.78	<1.6	<0.78	41	39	<0.78	<0.78	<0.78	49	<1.6	180	63	4-isopropyltoluene: 1.9 N-propylbenzene: 3.8
MW1-98'	9/20/2013	<3.6	<26	<53	NA	<0.83	<1.7	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<4.1	<1.7	2.4	<4.1	None
MW1-108'	9/20/2013	<3.1	<26	<52	NA	<0.71	<1.4	<0.71	<1.4	<0.71	<0.71	<0.71	<0.71	<3.6	<1.4	<3.6	<3.6	None
MW1-118'	9/20/2013	<4.0	<30	<60	NA	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<4.8	<1.9	<1.9	<4.8	None
MW1-128'	9/20/2013	<3.4	<29	<57	NA	<0.80	<1.6	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<4.0	<1.6	<1.6	<4.0	None
MW1-148'	9/20/2013	<3.2	<26	<52	NA	<0.79	<1.6	<0.79	<1.6	<0.79	<0.79	<0.79	<0.79	<3.9	<1.6	<1.6	<3.9	None
VE-3 15'	6/1/2016	<16	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<0.90	<0.90	<9.0	<1.8	<1.8	<4.5	None
VE-3 25'	6/1/2016	<17	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<0.91	<0.91	<9.1	<1.8	<1.8	<4.6	None
VE-3 35'	6/1/2016	<4	NA	NA	NA	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<0.87	<0.87	<8.7	<1.7	<1.7	<4.3	None
VE-3 45'	6/1/2016	<10	NA	NA	NA	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<1.1	<1.1	<11	<2.2	<2.2	<5.5	None
VE-4 15'	6/2/2016	<5.3	NA	NA	NA	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<1.1	<1.1	<11	<2.1	<2.1	<5.3	None
VE-4 25'	6/2/2016	<4.9	NA	NA	NA	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<0.86	<0.86	<8.6	<1.7	<1.7	<4.3	None
VE-4 35'	6/2/2016	<5.6	NA	NA	NA	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<0.88	<0.88	<8.8	<1.8	<1.8	<4.4	None
VE-4 45'	6/2/2016	<5.4	NA	NA	NA	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<0.95	<0.95	<9.5	<1.9	<1.9	<4.8	None
MTCA Cleanup Standards		30	2,000	2,000	250	30	7,000	6,000	9,000	100	5	None	5,000	None	None	None	None	VARIOUS

TABLE 1

SUMMARY OF SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706049 (former Sunmart #30)  
6006 West Clearwater Avenue  
Kennewick, Washington

MW2-48'	9/24/2013	<3.8	<26	<52	1.5	<1.3	<2.5	<1.3	<2.5	<1.3	<1.3	<1.3	<1.3	<6.3	<2.5	<2.5	<6.3	<1.3 - <19
MW2-68'	9/24/2013	<5.7	<27	<53	NA	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<5.3	<2.1	<2.1	<5.3	<1.1 - <16
MW2-78'	9/24/2013	<4.4	<27	<53	NA	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<4.7	<1.9	<1.9	<4.7	<0.93 - <14
MW2-88'	9/24/2013	<4.5	<27	<54	2.7	<1.2	<2.3	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<5.8	<2.3	<2.3	<5.8	<1.2 - <17
MW2-98'	9/25/2013	<3.6	<26	<52	NA	<0.90	<1.8	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<4.5	<1.8	<1.8	<4.5	<0.90 - <13
MW2-108'	9/25/2013	<3.2	<27	<54	NA	<1.1	<2.3	<1.1	<2.3	<1.1	<1.1	<1.1	<1.1	<5.7	<2.3	<2.3	<5.7	<1.1 - <17
MW2-118'	9/25/2013	<4.8	<29	<58	NA	<1.4	<2.9	<1.4	<2.9	<1.4	<1.4	<1.4	<1.4	<7.2	<2.9	<2.9	<7.2	<1.4 - <22
MW2-128'	9/25/2013	<4.0	<26	<53	1.3	<0.89	<1.8	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<4.5	<1.8	<1.8	<4.5	<0.89 - <13
<b>MTCA Cleanup Standards</b>		30	2,000	2,000	250	30	7,000	6,000	9,000	100	5	NA	5,000	NA	NA	NA	NA	VARIOUS

Notes:

EPA U.S. Environmental Protection Agency  
mg/Kg milligrams per kilograms (parts per million)  
ug/Kg micrograms per kilograms (parts per billion)  
NWTPH-Gx Northwest Total Petroleum Hydrocarbons - Gasoline Range  
NWTPH-Dx Northwest Total Petroleum Hydrocarbons - Diesel Range  
MTBE Methyl-tert-butyl Ether  
EDB Ethylene Dibromide  
EDC Ethylene Dichloride  
Naph Naphthalene  
Isoprop Isopropylbenzene  
TMB trimethylbenzene  
VOCs Volatile Organic Compounds  
MTCA Model Toxics Control Act  
**BOLD** Concentration exceeds laboratory reporting limit or method detection limit  
**RED** Concentration exceeds applicable MTCA Cleanup Standard  
NA Not Analyzed  
ND Not Detected above reporting limit  
< Not detected above given value

**TABLE 2**

**SUMMARY OF GROUNDWATER ELEVATION DATA**

Circle K Store #2706049 (former Sunmart #30)  
6006 West Clearwater Avenue  
Kennewick, Washington

Well ID	Date	TOC Elevation (ft amsl)	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
MW-1	12/5/2013	527	---	127.36	399.64
MW-1	12/5/2013	527	---	NA	NA
MW-2	12/5/2013	526	---	127.00	399.00
MW-2	12/5/2013	526	---	NA	NA

Elevation of well is based on apprimated elevation of site

NOTES:  
ft btoc = Feet Below Top Of Casing  
ft amsl = Feet Above Mean Sea Level  
TOC = Top of Casing  
--- = Not Present/Not Applicable

TABLE 3

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706049 (former Sunmart #30)  
 6006 West Clearwater Avenue  
 Kennewick, Washington

Sample ID	Date Collected	NWTPH-GX (ug/L)	EPA Method 8260												
			Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	m & p-Xylene (ug/L)	o-Xylene (ug/L)	MTBE (ug/L)	EDB (ug/L)	EDC (ug/L)	Naph (ug/L)	Isoprop (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Other VOCs (ug/L)
MW-1	12/5/2013	<b>110</b>	<1.0	<1.0	<1.0	<b>3.0</b>	<b>3.4</b>	<1.0	<0.010	<1.0	<1.0	<1.0	<b>5.5</b>	<b>2.6</b>	<b>n-Butylbenzene: 2.3</b>
MW-2	12/5/2013	<50	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<0.010	<1.0	<1.0	<1.0	<1.0	<1.0	None
MW-2	9/24/2019	NA	<20	<0.2	<20	<0.5	<0.5	<0.30	NA	<0.20	<1.0	<1.0	<0.30	<0.05	None
<b>MTCA Cleanup Standards</b>		<b>800</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>None</b>	<b>160</b>	<b>None</b>	<b>None</b>	<b>None</b>	<b>None</b>	<b>VARIOUS</b>

Notes:

- EPA U.S. Environmental Protection Agency
- mg/L milligrams per liter (parts per million)
- ug/L micrograms per liter (parts per billion)
- NWTPH-Gx Northwest Total Petroleum Hydrocarbons - Gasoline Range
- MTBE Methyl-tert-butyl Ether
- EDB Ethylene Dibromide
- Naph Naphthalene
- Isoprop Isopropylbenzene
- TMB Trimethylbenzene
- BOLD** Concentration exceeds laboratory reporting limit or method detection limit
- RED** Concentration exceeds applicable MTCA Cleanup Standard
- NA Not Analyzed
- ND Not Detected above reporting limit
- MTCA Model Toxics Control Act

## APPENDICES

**APPENDIX A**

**PREVIOUS DUE DILIGENCE REPORT**

# **ENVIRONMENTAL DUE DILIGENCE SITE ASSESSMENT REPORT**

**SUNMART #30  
6006 WEST CLEARWATER AVENUE  
KENNEWICK, WASHINGTON**

**November 23, 2012**

**Prepared For:**

**CIRCLE K STORES, INC  
255 EAST RINCON, SUITE 100  
CORONA, CALIFORNIA 92879**

**Prepared By:**



**BLAES ENVIRONMENTAL MANAGEMENT, INC.  
45 EAST MONTEREY WAY, SUITE 200  
PHOENIX, ARIZONA 85012**

**BLAES ENVIRONMENTAL PROJECT # 200-00001-30**

This Environmental Due Diligence Site Assessment Report has been prepared by Blaes Environmental Management, Inc. for Circle K Stores, Inc. (Circle K) as it pertains to Sunmart #30 located at 6006 West Clearwater Avenue in Kennewick, Washington. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists, engineers, and environmental consultants practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report. *Any use of or reliance on this report by a third party shall be at such a party's sole risk.*

Blaes Environmental Management, Inc. can offer no assurances and assumes no responsibility for site conditions or activities outside the scope of the inquiry requested by Circle K as outlined in this document. It should be understood by Circle K that Blaes Environmental Management, Inc. has relied on the accuracy of documents, oral information, and other materials and information provided by Circle K and other associated parties. Any subsequent modification, revision or verification of this report must be provided in writing by Blaes Environmental Management, Inc.

REPORT PREPARED BY:

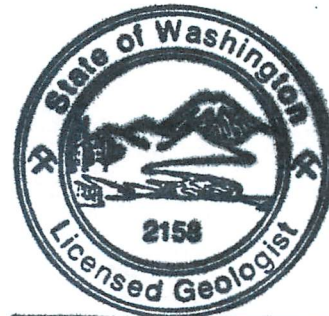


Brenda Perkins  
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Blaes Environmental Management, Inc.

REPORT REVIEWED BY:



Daniel M. Blaes  
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Washington Licensed Geologist/Hydrogeologist #2158



Daniel Michael Blaes

Blaes Project #200-00001-30

## **EXECUTIVE SUMMARY**

In August 2012, Blaes Environmental conducted a subsurface Environmental Due Diligence Site Assessment Program at Sunmart #30 located at 6006 West Clearwater Avenue in Kennewick, Washington. The objectives of the Site Assessment Program were to gather geologic and hydrogeologic data from the site and to evaluate whether or not petroleum hydrocarbon constituents exist at specific locations in the subsurface soil or groundwater. The Site Assessment Program involved; (1) drilling and collecting soil samples from one soil boring adjacent to the underground storage tank (UST) basin; and (2) hand augering angled soil borings and collecting soil samples adjacent to the nine existing dispenser islands.

Based on the Site Assessment Program findings, Blaes Environmental confirmed through laboratory analysis the presence of gasoline, diesel, and oil range hydrocarbon concentrations in the soil below the existing underground storage tanks and below select fuel dispenser pumps at the site. A petroleum hydrocarbon release notification was reportedly filed with the Washington Department of Ecology by Sun Pacific Energy (owner of the Sunmart store) based on the results of this investigation.

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- Appendix A. Health and Safety Plan Approval Page
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- Appendix C. Drilling and Soil Sampling Procedures
- Appendix D. Laboratory Reports, QA/QC, and Chain-of-Custody Documentation
- Appendix E. Waste Disposal Documentation

## **1.0 INTRODUCTION**

This report documents the procedures and findings of a subsurface Environmental Due Diligence Site Assessment Program conducted at Sunmart #30 located at 6006 West Clearwater Avenue in Kennewick, Washington (Figure 1). Blaes Environmental Management, Inc. (Blaes Environmental) conducted the Site Assessment Program for Circle K Stores, Inc. (Circle K) in August 2012.

### **1.1 PROGRAM OBJECTIVES**

The objectives of the Site Assessment Program were to gather geologic and hydrogeologic data and to evaluate whether or not petroleum hydrocarbon constituents exist at specific locations in the soil and/or groundwater at the site.

### **1.2 SITE SPECIFIC SCOPE OF WORK**

The Site Assessment Program scope of work involved four primary activities including: (1) locating underground utilities using public line locating services and notifying the Sunmart store manager prior to commencing field activities; (2) drilling and sampling one soil boring (B-1) adjacent to the east side of the UST basin; (3) hand augering and sampling nine angled soil borings (D-1/2, D-3/4, D-5/6, D-7/8, D-9/10, D-11/12, D-13/14, D-15/16, and D-17/18) adjacent to the fuel dispenser islands. Each activity is described in detail in Section 3.0 of this report.

### **1.3 PROJECT TEAM**

The project field team consisted of Blaes Environmental of Phoenix, Arizona, Cascade Drilling of Woodinville Washington, TestAmerica Inc. in Seattle, Washington, and other supporting subcontractors. Blaes Environmental personnel provided the project coordination, management, soil logging, and reporting. Cascade Drilling conducted the drilling program in the former UST area and the hand auger borings near the dispenser islands. TestAmerica Inc. provided laboratory analytical services.

### **1.4 PROJECT LIMITATIONS**

Blaes Environmental and the drilling contractor conducted the subsurface site assessment activities to the best of their abilities based on surface expressions at the site, experience drilling at UST sites and locations of marked underground utilities and size of the UST's. As directed by Circle K, Blaes Environmental only submitted select soil samples from select soil boring locations at the site. As such, Blaes Environmental cannot make representation as to whether or not petroleum hydrocarbon constituents exist in any soil sample, soil boring or depth interval not analyzed by the analytical laboratory.

## **2.0 SITE BACKGROUND INFORMATION**

This section presents known information regarding the site background. The information was obtained from field observations, Sunmart files (where available), and State, regional, and local literature.

### **2.1 SITE LOCATION AND LAND USE**

The property is located on the northwest corner of the intersection of Clearwater Avenue and Kellogg Street in Kennewick, Washington. The property is within Section 32, Township 9 North, Range 29 East of the Pasco Washington U.S. Geological Survey 7 ½ -minute Topographic Quadrangle. The property consists of a concrete and asphalt-paved lot with one existing single-story building (the Sunmart Store) and nine dispenser pumps. The site features are shown on the Site Plan in Figure 2. Global Positioning System (GPS) readings locate the site at approximately latitude 46 degrees, 12 minutes, 46.72 seconds North and longitude 119 degrees, 12 minutes, 06.14 seconds West as measured on Google Earth 2012.

The area surrounding the site consists of a mixture of vacant property, commercial businesses, and residential development. The commercial business Windermere Real Estate is located directly north of the site and east (across Kellogg Street) is American West Bank. A residential development is located across West Clearwater Avenue south of the site. A natural gas distribution station and a parcel of vacant land are located west of the site.

### **2.2 SITE PHYSIOGRAPHY**

The property lies at an elevation of approximately 534 feet above Mean Sea Level (Google Earth 2012). Natural surface drainage in the area is towards the northeast (U.S. Geological Survey 7 ½ -minute Topographic Quadrangle). On-site drainage is predominantly towards the south and east away from the building and fuel canopy structures and into the streets.

### **2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY**

The site is located within the Columbia Basin, also known as the Columbia Plateau, which is a vast area in eastern Washington, southwestern Idaho, and northern Oregon. The physiographic province is characterized by incised rivers, extensive plateaus, and anticlinal ridges rising to 4,000 feet above sea level. The region is underlain by Miocene Columbia River Basalt Group rocks and interbedded Neogene terrestrial sediments.

Data about what lies under the Columbia River basalts are sparse. Along the Idaho border south of Spokane, steptoes that once were mountain tops consist of Precambrian Belt Supergroup sedimentary rocks and metamorphosed Cretaceous granites. These mountains were enveloped by Miocene basalts so

that only the summits remain above the lava flows. Deeply weathered granites support a clay mining industry, and a cassiterite deposit is known just south of Spokane.

Even less is known about the pre-Miocene basement in the central and western parts of the Columbia Basin. The only information available is from seven petroleum exploration wells that have penetrated the basalt and from projections of geology from the margins of the basin. Along the margins, Paleogene fault-bounded basins are filled with thick sequences of arkose, volcanoclastic rocks, and coal. Drilling has demonstrated that in a general way these sedimentary basins extend southward under the Columbia River basalts. The subsurface geology changes near the Snake River. A 1987 exploratory well drilled 20 miles northeast of Pasco penetrated a thin Paleogene crystal tuff section before encountering Triassic or Jurassic chloritic metamorphic rocks at an approximate depth of 8,000 feet.

The Columbia basin province is best defined by the areal extent of the Miocene Columbia River Basalt Group rocks. These basalts, which are present in the Blue Mountain uplift as well as in the Columbia Basin, cover 36 percent of the entire state. The group consists of four flood basalt formations, starting with the Imnaha Basalt at 17.5 Ma, followed by the Grande Ronde Basalt (16.5 to 15.6 Ma), the Wanapum Basalt (15.6 to 14.5 Ma), and lastly the Saddle Mountains Basalt (14.5 to 6 Ma). On the basis of geophysical evidence, the basalts are known to reach a maximum thickness of 16,000 feet in the Pasco Basin.

The greatest volume of basalts was erupted before 15.5 Ma. These flows have similar appearances; techniques have been developed, however, to fingerprint individual basalt units using whole-rock geochemistry and magnetic polarity. Within the Grande Ronde Basalt, individual flows exceed 480 cubic miles (2,000 km<sup>3</sup>) in volume. The flows were extruded from vents and northwest-trending fissures east of Pasco and in the southeast corner of the state. The flows were extremely fluid, and as a result a number of them reached the Pacific Ocean via the ancestral Columbia River drainage.

During the Pliocene and the Pleistocene, gravel, sand, silt, and clay were deposited in lakes or by aggrading streams and rivers in depressions such as the Pasco Basin, where 1,000 feet of sediment lies on top of the basalt. Glacial outwash during the Pleistocene produced huge volumes of wind-blown silt called loess. It blankets much of the Columbia Basin and in places is up to 200 feet thick. The loess-rich soils of the Palouse subprovince provide ideal conditions for growing wheat, making southeast Washington one of the major grain-producing regions of the world.

The Columbia Basin was the scene of the greatest catastrophic floods ever documented in the geologic record. The Pleistocene Cordilleran ice sheet advanced south into Idaho, damming the Clark Fork River at

the Montana border. A huge impoundment, called Lake Missoula, formed. The lake had the volume of present-day Lake Michigan and was 2,000 feet deep at the dam. The ice dam repeatedly gave way between 12,700 and 15,300 years ago, releasing waters that caused unprecedented flooding. Water raced down the Spokane Valley and spread out over the Columbia Basin. The maximum flow rate was estimated at 15 cubic miles (62.5 km<sup>3</sup>) per hour--a rate 15 times the combined flow of all the rivers of the world. During the floods the surface of the land was greatly modified. Anastomosing channels were cut through the loess blanket and into basalt, leaving a jumbled topography of coulees, buttes, mesas, dry water falls, hanging valleys, and giant ripples. These geomorphic features are known collectively as the Channeled Scablands. The events are called the Great Spokane Floods.

#### **2.4 SITE LITHOLOGY AND DEPTH TO GROUNDWATER**

Based on soil samples collected from boring B-1 during the drilling program, subsurface soils consist predominantly of cobbles, gravel, and sand from the ground surface to the total depth of the boring at approximately 60 feet below ground surface (bgs). This site is extremely difficult drilling due to the large cobble and gravel throughout the soil column. Groundwater was not encountered during the drilling program at this site.

### **3.0 ENVIRONMENTAL DUE DILIGENCE SITE ASSESSMENT PROGRAM**

Blaes Environmental conducted the Site Assessment Program in accordance with the scope of work prepared by Circle K Stores, Inc. for the environmental due diligence process. The following sections of this report present a description of the procedures and equipment used to conduct the subsurface investigation.

#### **3.1 UTILITY LOCATION AND STORE NOTIFICATION**

##### **3.1.1 Underground Utility Line Location**

Blaes Environmental contacted Washington One Call (One Call) to mark public subsurface utilities at the site approximately one week prior to field drilling operations. Blaes Environmental and the drilling contractor verified the field utility markings prior to initiating the subsurface activities at the site. In addition to the public utility marking service, Cascade Drilling also hand cleared each soil boring to help prevent damage to subsurface utilities and structures.

##### **3.1.2 Store Notification**

Concurrent with the utility line locating process, Blaes Environmental contacted the store manager a minimum of 48 hours prior to drilling at the site. Blaes Environmental described the Site Assessment Program's scope of work to the store manager and indicated that Blaes Environmental and the drilling contractor would work diligently to minimize the impact to the Sunmart business during the subsurface investigation. The store manager was informed that Blaes Environmental intended on completing the assessment program within one day.

#### **3.2 DRILLING AND SOIL SAMPLING**

On August 23, 2012 Blaes Environmental and Cascade Drilling completed drilling of soil boring B-1 adjacent to the east side of the existing UST basin, and completed hand augering of nine angled soil borings adjacent to the existing dispenser pumps. A description of the field activities conducted during the site investigation is presented below.

##### **3.2.1 Health and Safety Meeting**

Blaes Environmental conducted a health and safety meeting at the site prior to initiating drilling activities. Attendees at the meeting included all field personnel including two members of the drilling crew and the Blaes Environmental field representative. During the meeting, the site-specific Health & Safety Plan (HASP) was reviewed and discussed by all personnel and the HASP Approval Form Signature Page was signed by all applicable site personnel. Field activities were conducted in strict adherence with the provisions described in the HASP. The HASP Approval Form Signature Page is included in Appendix A.

### **3.2.2 Soil Boring Drilling & Soil Sampling**

On August 23, 2012, Cascade Drilling used a CME-75 hollow-stem auger drilling rig to advance one soil boring (B-1) adjacent to the east side of the UST basin to a depth of approximately 60 feet bgs. This boring was terminated due to auger refusal at approximately 60 feet bgs after multiple attempts were made to drill deeper. The location of the boring is shown in Figure 2.

Blaes Environmental collected soil samples from the soil boring at approximate five-foot depth intervals beginning at a depth of approximately 10 feet bgs. A modified California split-spoon sampler consisting of an outer sampling barrel lined with three 6-inch long sample sleeves was used to collect the soil samples from the boring. During drilling, groundwater was not encountered in the boring.

A calibrated photoionization detector (PID) was utilized to evaluate the soil samples collected from each depth interval in the boring. In addition to the PID measurements, Blaes Environmental described the physical characteristics of the soil samples using the Unified Soil Classification System (USCS) and logged the number of blow counts needed to sample at each sample horizon. The PID measurements and blow counts are presented in the lithologic logs in Appendix B.

Upon sample collection, the sample sleeve was removed from the split spoon sampler. A small quantity of soil was subsequently removed from the sleeve using a Terra Core "T" sampler and added to a laboratory supplied vial containing methanol in accordance with sampling guidelines for EPA Method 5035. A second quantity of soil was removed from the sleeve and placed into a laboratory-supplied glass sample jars. Both the methanol vials and glass jars were labeled with pertinent project information, placed in sealable plastic bags, and placed on ice in a cooler. A written record of each sample was entered onto a chain-of-custody record for transport to TestAmerica for laboratory analysis. The drilling and soil sampling equipment, procedures, and quality assurance methods used during the drilling program are included in Appendix C.

### **3.2.3 Hand Auger Boring & Soil Sampling**

On August 23, 2012, Cascade Drilling used a hand auger drilling kit to advance nine angled soil borings (D-1/2, D-3/4, D-5/6, D-7/8, D-9/10, D-11/12, D-13/14, D-15/16, and D17/18) adjacent to the location of each existing fuel dispenser pump at the site (Figure 2). The hand auger kit consisted of ½-inch rods of 5-foot lengths connected to a 3-inch diameter by 1-foot long auger bucket. The hand auger kit was also equipped with all additional tools and equipment necessary to complete the soil boring.

A soil sample was collected from each boring using the bucket of the hand auger. A small quantity of soil was removed from the bucket using a Terra Core "T" sampler and added to a laboratory supplied vial containing methanol in accordance with sampling guidelines for EPA Method 5035. A second quantity of soil was removed from the bucket and placed into a laboratory-supplied glass sample jar. The methanol vials and glass jars were labeled with pertinent project information, placed in sealable plastic bags, logged onto a chain-of-custody record, and placed on ice in a cooler for transport to TestAmerica.

Representative portions of each soil sample were field-screened for the presence of total volatile organic compounds (VOCs) using the PID. Soils encountered during drilling were also visually examined and described by a Blaes Environmental representative in general accordance with the USCS. The lithologic logs of the hand auger soil borings are included in Appendix B. The drilling and soil sampling equipment, procedures, and quality assurance methods used during the drilling program are included in Appendix C.

#### **3.2.4 Soil Boring Abandonment**

The soil boring drilled near the USTs was abandoned by grouting the entire boring to ground surface with bentonite chips and completing with a concrete pad. The hand augered borings were abandoned by backfilling with native soil and completing with a concrete cap. Excess soil and decontamination water were stored in DOT-approved 55-gallon steel drums for disposal at an approved landfill.

### **3.3 LABORATORY ANALYSES**

#### **3.3.1 Laboratory Analysis**

Soil samples collected during the Site Assessment Program were delivered by Blaes Environmental, under proper chain-of-custody record, to TestAmerica in Seattle, Washington (with assistance from the TestAmerica laboratory in Richland, Washington). The samples from the soil borings were analyzed for NWTPH-GX volatile gasoline range organics (GRO), NWTPH-Dx semi-volatile diesel and oil range organics (DRO-ORO), and for volatile organic compounds (VOCs) in compliance with EPA Method 8260. The laboratory results are described below and are represented in Table 1 and Table 2. A copy of the laboratory report (including quality control/quality assurance documentation, and chain-of-custody record) is included in Appendix D.

#### **3.3.2 Soil Analytical Results**

The soil samples collected from boring B-1 indicated detected concentrations of GRO above laboratory reporting limits at approximately 35 feet bgs (73 mg/Kg), and detected concentrations above MTCA regulation limits at depths of approximately 40, 45, 55, 60, 65 and 70 feet bgs ( 560 mg/Kg, 460 mg/Kg, 2,300 mg/Kg, 1,500 mg/Kg, 1,100 mg/Kg and 130 mg/Kg, respectively). Soil samples collected from

borings D-1/2 and D-7/8 also indicated GRO concentrations (5.0mg/Kg and 25 mg/Kg, respectively).

The soil samples collected from boring B-1 also indicated detected hydrocarbon concentrations above laboratory reporting limits of DRO at approximately 40, 45, 55, 60 and 65 feet bgs (250 mg/Kg, 270 mg/Kg, 1,400 mg/Kg, 340 mg/Kg and 350 mg/Kg, respectively). Soil samples collected from boring D-7/8 also indicated GRO concentrations (99 mg/Kg). The soil sample collected from boring D-7/8 indicates detected concentrations of benzene above MTCA regulation limits ( 0.034 mg/Kg) as well as additional VOCs above MTCA and laboratory reporting limits.

**Table 1. Soil Sample Analytical Results**

Sample ID	Depth (fbgs)	Sample Date	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	EPA Method 8260B (mg/Kg)					
						Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Additional VOCs
B-1-20	20	8/23/12	<3.3	<26	<51	<0.0009	<0.0018	<0.00091	<0.0018	<0.00091	ND
B-1-35	35	8/23/12	<b>73</b>	<26	<53	<0.017	<0.042	<0.042	<b>130</b>	<0.042	D*
B-1-40	40	8/23/12	<b>560</b>	<b>250</b>	<58	<0.016	<0.041	<0.041	<b>110</b>	<0.041	D*
B-1-45	45	8/23/12	<b>460</b>	<b>270</b>	<49	<0.014	<0.036	<0.036	<b>76</b>	<0.036	D*
B-1-55	55	8/23/12	<b>2,300</b>	<b>1400</b>	<50	<0.014	<0.035	<b>0.11</b>	<b>19.0</b>	<0.035	D*
B-1-60	60	8/23/12	<b>1,500</b>	<b>340</b>	<51	<0.013	<0.032	<b>.094</b>	<b>11.0</b>	<0.032	D*
B-1-65	65	8/23/12	<b>1,100</b>	<b>350</b>	<59	<0.017	<0.042	<b>.060</b>	<b>10.0</b>	<0.042	D*
B-1-70	70	8/23/12	<b>130</b>	<26	<53	<0.015	<0.037	<0.037	<b>0.54</b>	<0.037	D*
D-1/2	5	8/23/12	<b>5.0</b>	<30	<60	<0.001	<0.021	<0.001	<0.0021	<0.001	ND
D-3/4	5	8/23/12	<4.2	<26	<52	<0.0009	<0.002	<0.00099	<0.002	<0.00099	ND
D-5/6	5	8/23/12	<4.3	<27	<53	<0.001	<0.002	<0.001	<0.002	<0.001	ND
D-7/8	5.5	8/23/12	<b>25</b>	<b>99</b>	<59	<b>0.034</b>	<b>0.500</b>	<b>0.074</b>	<b>1.50</b>	<0.0012	D*
D-9/10	4.5	8/23/12	<4.7	<31	<62	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	ND
D-11/12	5	8/23/12	<4.4	<31	<62	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	ND
D-13/14	4.5	8/23/12	<4.8	<31	<61	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	ND
D-15/16	5	8/23/12	<4.4	<27	<54	<0.0009	<0.0019	<0.00095	<0.0019	<0.00095	ND
D-17/18	4	8/23/12	<4.4	<27	<54	<0.001	<0.0021	<0.001	<0.0021	<0.001	ND
MTCA (mg/Kg)	--	--	100	2,000	2,000	0.03	7	6	9	0.1	--

- EPA – Environmental Protection Agency
- GRO – Gasoline Range Organics
- DRO – Diesel Range Organics
- ORO – Oil Range Organics
- MTBE – Methyl-tert-butyl-Ether
- mg/kg – Milligrams per Kilogram (parts per million)
- MTCA – Model Toxics Control Act
- ND – Non-Detect
- fbgs – feet below ground surface
- VOCs – Volatile Organic Compounds

**Table 2. Additional VOC Analytical Results**

Sample ID	Depth (fbgs)	Sample Date	EPA Method 8260B (mg/Kg)								
			1,3,5-TMB	1,2,4-TMB	4-Iso	n-B	N	n-P	sec-B	2-C	4-C
B-1-20	20	8/23/12	<0.0046	<0.0018	<0.0018	<0.0018	<0.0046	<0.0009	<0.0018	<0.0018	<0.0018
B-1-35	35	8/23/12	<b>1.1</b>	<b>4.2</b>	<b>0.046</b>	<b>0.20</b>	<b>0.68</b>	<0.042	<0.042	<0.042	<0.042
B-1-40	40	8/23/12	<b>0.83</b>	<b>4.3</b>	<b>0.084</b>	<b>1.0</b>	<b>15.0</b>	<b>0.047</b>	<b>0.061</b>	<0.041	<0.041
B-1-45	45	8/23/12	<b>0.42</b>	<b>1.9</b>	<b>0.039</b>	<b>1.3</b>	<b>17.0</b>	<0.036	<0.036	<0.036	<0.036
B-1-55	55	8/23/12	<b>30.0</b>	<b>110</b>	<b>1.1</b>	<b>12.0</b>	<b>76.0</b>	<b>3.3</b>	<b>1.7</b>	<0.035	<0.035
B-1-60	60	8/23/12	<0.032	<b>90.0</b>	<b>0.82</b>	<b>16.0</b>	<b>29.0</b>	<b>3.1</b>	<b>1.2</b>	<b>0.048</b>	<b>0.060</b>
B-1-65	65	8/23/12	<b>15.0</b>	<b>71.0</b>	<b>0.71</b>	<b>6.7</b>	<b>21.0</b>	<b>2.3</b>	<b>1.0</b>	<0.042	<0.042
B-1-70	70	8/23/12	<b>1.6</b>	<b>5.2</b>	<b>0.061</b>	<b>1.2</b>	<b>2.8</b>	<b>0.16</b>	<b>0.096</b>	<0.037	<0.037
D-1/2	5	8/23/12	<0.0052	<0.0021	<0.0021	<0.0021	<0.0052	<0.0010	<0.0021	<0.0021	<0.0021
D-3/4	5	8/23/12	<0.0050	<0.0020	<0.0020	<0.0020	<0.0050	<0.0009	<0.0020	<0.0020	<0.0020
D-5/6	5	8/23/12	<0.0051	<0.0020	<0.0020	<0.0020	<0.0051	<0.0010	<0.0020	<0.0020	<0.0020
D-7/8	5.5	8/23/12	<b>0.97</b>	<b>2.3</b>	<0.0023	<b>0.39</b>	<b>0.52</b>	<b>0.049</b>	<0.0023	<0.0023	<0.0023
D-9/10	4.5	8/23/12	<0.0059	<0.0024	<0.0024	<0.0024	<0.0059	<0.0012	<0.0024	<0.0024	<0.0024
D-11/12	5	8/23/12	<0.0053	<0.0021	<0.0021	<0.0021	<0.0053	<0.0011	<0.0021	<0.0021	<0.0021
D-13/14	4.5	8/23/12	<0.0055	<0.0022	<0.0022	<0.0022	<0.0055	<0.0011	<0.0022	<0.0022	<0.0022
D-15/16	5	8/23/12	<0.0048	<0.0019	<0.0019	<0.0019	<0.0048	<0.0009	<0.0019	<0.0019	<0.0019
D-17/18	4	8/23/12	<0.0052	<0.0021	<0.0021	<0.0021	<0.0052	<0.0010	<0.0021	<0.0021	<0.0021

- EPA – Environmental Protection Agency
- 1,3,5-TMB – 1,3,5-Trimethylbenzene
- 1,2,4-TMB – 1,2,4-Trimethylbenzene
- 4-Iso – 4-Isopropyltoluene
- n-B – n-Butylbenzene
- N – Naphthalene
- n-P – n-Propylbenzene
- sec-B – sec-butylbenzene
- 2-C – 2-Chlorotoluene
- 4-C – 4-Chlorotoluene
- mg/kg – Milligrams per Kilogram (parts per million)

**3.4 WASTE DISPOSAL**

The excess soil and decon water generated at the site was sampled and profiled for disposal. The profile samples were submitted to TestAmerica for analyses including GRO, DRO, ORO, VOCs and TCLP Metals. Following receipt of the sample analyses, the waste was transported and disposed of by PSC (contracted through Cascade Drilling). The laboratory report of the waste profile samples and the waste disposal manifest documentation are presented in Appendix E.

**3.5 CONCLUSIONS**

Based on the findings of the Site Assessment Program for this site, Blaes Environmental concludes that a

confirmed petroleum hydrocarbon release has occurred at the location of boring B-1 near the existing underground storage tank basin and at two dispenser islands at the site. Petroleum hydrocarbon concentrations (including GRO, DRO, and VOCs) in excess of laboratory reporting limits and MTCA regulatory limits were found in the soil samples from boring B-1 analyzed from depths of 35 to 70 feet bgs.

Soil samples analyzed from below the dispenser island borings D-1/2 and D-7/8 also indicated petroleum hydrocarbon concentrations. However, the analyses from boring D-1/2 may not represent an actual hydrocarbon release below the dispenser and is more consistent with hydrocarbon concentrations associated with a minor past surface spill.

#### **4.0 RELEASE NOTIFICATION TO WDOE**

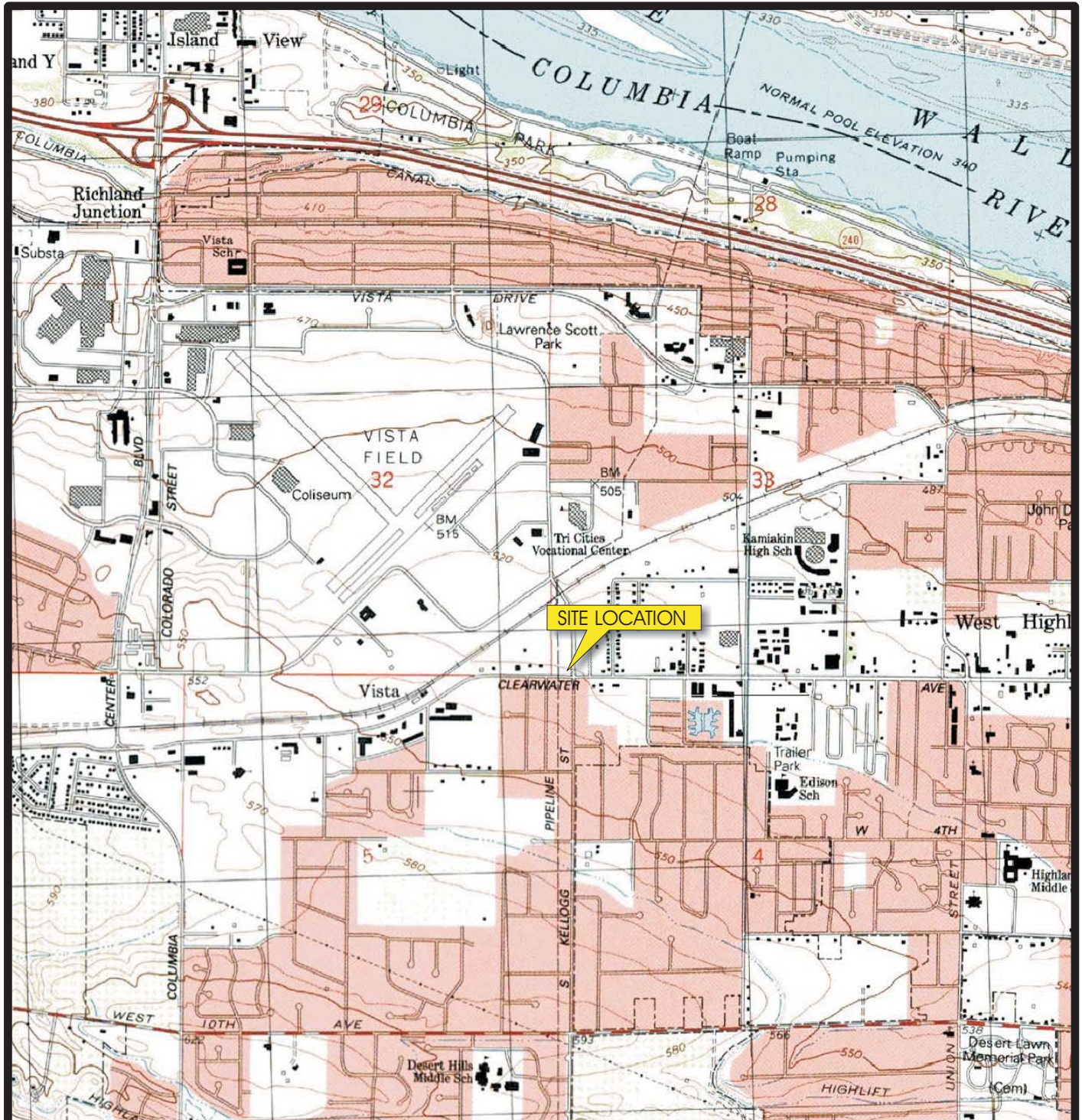
##### **4.1 PETROLEUM HYDROCARBON RELEASE NOTIFICATION**

On August 24, 2012, Circle K notified Sun Pacific Energy (owner of the Sunmart store) that the laboratory analyses from Sunmart #30 indicated that a release of petroleum hydrocarbons was found at the site. Sun Pacific Energy subsequently filed a release report to the Washington Department of Ecology.

## **5.0 REFERENCES**

Lasmanis, Raymond, 1991, The geology of Washington: Rocks and Minerals, v. 66, no. 4, p. 262-277. ©  
Copyright Heldref Publications (Helen Dwight Reid Educational Foundation).

## FIGURES



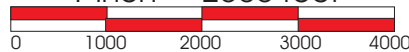
Source: MapTech Terrain Navigator Kennewick Quadrangle, 7.5 Minute Topographic Series, 1992

**QUADRANGLE LOCATION**



Approximate Scale  
1:24,000

1 inch = 2000 feet



Contour Interval = 10 feet



6006 West Clearwater Ave.  
Kennewick, WA

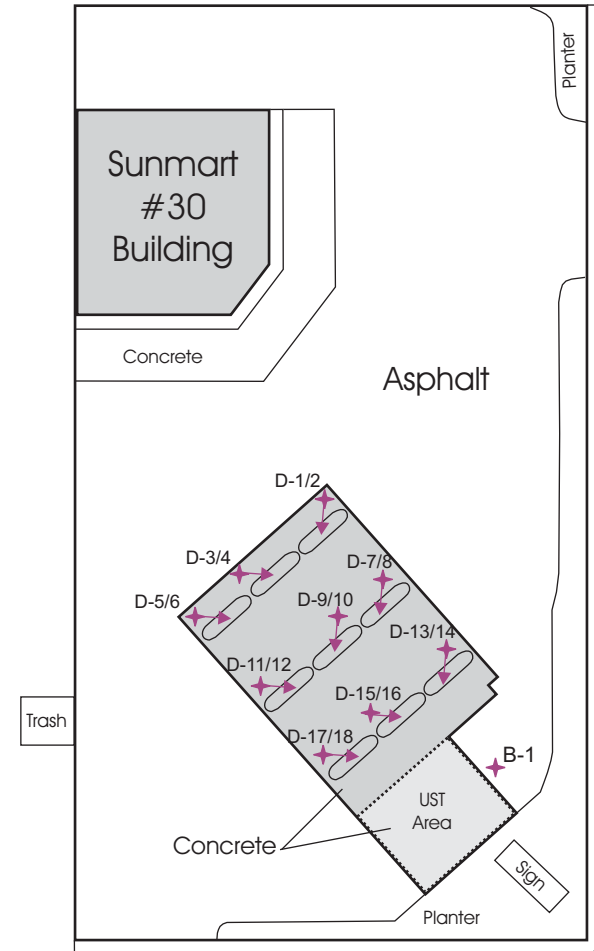
**SITE LOCATION MAP**

July 2012 | Project #201-00001-30 | Figure 1

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Kennewick\Graphics\SLM.cdr

**SITE LOCATION: T9N, R29E, Section 32**

46° 12' 46.72" North Latitude; 119° 12' 06.14" West Longitude



Kellogg Street



Clearwater Avenue



Approximate Scale  
1 inch = 60 feet



**Legend**

-  B-1 Approximate location of Soil Boring & ID
-  D-1/2 Approximate location of Angled Soil Boring & ID



**Sunmart #30**  
6006 West Clearwater Avenue  
Kennewick, Washington

**SITE  
PLAN**

September 2012

Project #201-00001-30

Figure  
2

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## APPENDICES

**APPENDIX A**

**HEALTH AND SAFETY PLAN  
APPROVAL FORM SIGNATURE PAGE**



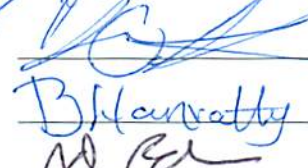
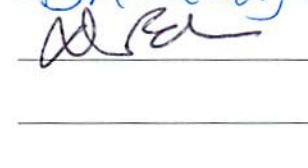
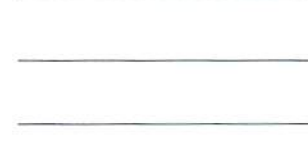
**ATTACHMENT 1**

**HEALTH & SAFETY APPROVAL FORM**

**WORK ASSIGNMENT:  
SITE ASSESSMENT**

Sunmart Site #30  
6006 West Clearwater Ave.  
Kennewick, WA 99336

*I have read, understand, and agreed with the information set forth in this Health and Safety Plan and will follow the direction of the Site Health & Safety Officer (SHSO).*

<u>Field Team Member Name</u>	<u>Signature</u>	<u>Company</u>	<u>Date</u>	<u>Date</u>
Arel Genay		Blaes	8/23/12	8/24, 12
JAMES Goble		CASCADE	8-23-12	8-24-12
Ayle Cerchi		LDLP	8-23-12	8-24-12
Arno Cichone		CDLP	8-23-12	8-24-12
Bradley Hanratty	B Hanratty	CDLP	8-24-12	
DAN BLAES		BLAES	8/23-24/12	

**Approvals:**

Site Health & Safety Officer (SHSO)

Company



Blaes Environmental

Field Team Leader



Blaes Environmental

Health & Safety Program Coordinator

Dan Blaes



Blaes Environmental

**APPENDIX B**  
**LITHOLOGIC LOGS**



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. B-1  
Sheet 1  
of 3

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: CME-75  
Drilling Method: Hollow-Stem Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to	<b>DESCRIPTION</b>
										Date	Date	
					1							3" asphalt surface
					2							ABC fill
					3							
					4							
					5							cobble, gravel, sand, silty mix
					6							
					7							
					8							
1505	50/5	4.9		B1-10'	9							50% silty sand, 25% gravel, 25% cobble, light brown with black basalt, very dense, slightly damp
					10							
					11							
					12							
					13							
1516	50/5	2.9		B1-15'	14							60% medium-fine grained sand, 20% cobble, large gravel, 10% silt, brown, very dense, slightly damp
					15							
					16							
					17							
					18							
1534	50/5	0.5		B1-20'	19							40% cobble, 40% gravel, 20% silty sand, brown, very dense, slightly damp
					20							
					21							
					22							
					23							
1544	50/5	NR		B1-25'	24							cobbles in cuttings (no recovery)
					25							
					26							
					27							
					28							
1555	50/5	13.9		B1-30'	29							50% gravel, 30% cobble, 20% silty sand, brown, very dense, slightly damp
					30							
					31							



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. B-1  
Sheet 2  
of 3

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: CME-75  
Drilling Method: Hollow-Stem Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to <input type="checkbox"/>	Depth to <input type="checkbox"/>	<b>DESCRIPTION</b>
										Date	Date	
					32							
					33							
1605	50/6	134	6	B1-35'	34							40% silt, 20% sand, 20% cobble, 10% gravel, medium light brown, dry, very dense, odor present
					35							
					36							
					37							
					38							
1648	50/5	NR	0.3	B1-40'	39							No lithology recovery <400 ppm PID near borehole
					40							
					41							
					42							
					43							
1700	50/5	155	6	B1-45'	44							30% cobble, 30% gravel, 30% sand, 10% fines, brown, slightly damp, hydrocarbon odor
					45							
					46							
					47							
					48							
1715		NA		B1-55'	49							No recovery
					50							
					51							
					52							
					53							
0845	50/5	2423	5	B1-55'	54							60% sandy silt, 30% cobble, 10% gravel, brown, dense, strong hydrocarbon odor
					55							
					56							
					57							
					58							
0859	50/5	1208	6	B1-60'	59							60% silty sand, 20% cobble, 20% gravel, brown, very dense, slightly moist, strong hydrocarbon odor
					60							
					61							
					62							



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. B-1  
Sheet 3  
of 3

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: CME-75  
Drilling Method: Hollow-Stem Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date	Date
DESCRIPTION											
					63						
0920	50/6	1576	12	B1-65'	64						
					65						
					66						
					67						
					68						
0940	50/6	25.9	6	B1-70'	69						
					70						
					71						
					72						
					73						
					74						
					75						
					76						
					77						
					78						
					79						
					80						
					81						
					82						
					83						
					84						
					85						
					86						
					87						
					88						
					89						
					90						
					91						
					92						
					93						

85% sandy silt, 15% gravel, brown, dense, very moist

50% gravel, 25% all range sand, 25% clay, multiple colors, dense, moist



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-1/2  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date 8/24/12	Date
										<b>DESCRIPTION</b>	
					1						
					2						
					3						
0840	HA	2.1	6	D1/2-5'	4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						
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					27						
					28						
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					30						
					31						

6' concrete  
ABC fill

Very fine, silty sand (70%), cobbles (25%), gravel (5%), brown, slightly moist, dense.  
Refusal at 5' due to larger cobbles



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-3/4  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date	Date
										<b>DESCRIPTION</b>	
					1						
					2						
					3						
1130	HA	0.0	6	D3/4-5'	4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						
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					29						
					30						
					31						

6" concrete  
ABC fill (75%)

Fine, silty sand, 20% cobble, 5% gravel, brown, dense, slightly damp  
Auger regusal at 5' due to increased percentage of cobbles



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-5/6  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: Hand Auger  
Drilling Method: \_\_\_\_\_  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to	<b>DESCRIPTION</b>
										Date 8/24/12 Time	Date Time	
					1							6" concrete ABC fill  70% brown silty sand, 20% cobble, 10% gravel, dense, slightly damp Auger refusal at 5' due to increased percentage of cobbles
					2							
					3							
0930	HA	0.5	6	D5/6-5'	4							
					5							
					6							
					7							
					8							
					9							
					10							
					11							
					12							
					13							
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					29							
					30							
					31							



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-7/8  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date	Date
										<b>DESCRIPTION</b>	
					1						
					2						
					3						
					4						
0755	HA	1	6	D7/8-5.5'	5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						
					15						
					16						
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					24						
					25						
					26						
					27						
					28						
					29						
					30						
					31						

6" concrete surface  
ABC fill

65% silty sand, 30% cobbles, 5% gravel, brown, dense, slightly damp  
Refusal at 5.5' due to larger rocks



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-9/10  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: **Backfill with cuttings, concrete pad**

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to <input type="checkbox"/>	Depth to <input type="checkbox"/>	<b>DESCRIPTION</b>
										Date	Date	
					1							6" concrete surface    50% cobbles, 35% silty sand, 15% gravel with boulders, brown, slightly damp
					2							
					3							
1710	HA	3.1	6	D9/10-4.5'	4							
					5							
					6							
					7							
					8							
					9							
					10							
					11							
					12							
					13							
					14							
					15							
					16							
					17							
					18							
					19							
					20							
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					26							
					27							
					28							
					29							
					30							
					31							



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No.  
D-11/12  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: Backfill with cuttings, concrete pad

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date	Date
										<b>DESCRIPTION</b>	
					1						
					2						
					3						
1705	HA	3.1	6	D-11/12	4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						
					15						
					16						
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					21						
					22						
					23						
					24						
					25						
					26						
					27						
					28						
					29						
					30						
					31						

6" concrete surface

50% silty sand, 35% cobbles, 15% gravel, boulders present, brown, slightly damp, very dense



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-13/14  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to <input type="checkbox"/>	Depth to <input type="checkbox"/>
										Date	Date
					1						
					2						
1504	HA	2.5	6	D13-14-4.5'	3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
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					25						
					26						
					27						
					28						
					29						
					30						
					31						

### DESCRIPTION

6" concrete surface

50% silt and very fine sand, 40% cobbles with 10% gravel, boulders present, brown, very dense, slightly moist

Prepared By: Arell Gray Date 8/23/2012 Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-15/16  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date	Date
										<b>DESCRIPTION</b>	
					1						
					2						
					3						
1158	HA	0.0	6	D15/16-5'	4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
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					25						
					26						
					27						
					28						
					29						
					30						
					31						

6" concrete surface  
ABC fill

65% silty sand, 30% cobbles, 5% gravel, brown, slightly damp, dense  
Auger Refusal at 5' due to increased percentage of cobbles



**Environmental Management, Inc.**  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 201-00001-30  
Client Circle K  
Location 6006 W. Clearwater Ave Kennewick, WA  
Logged By \_\_\_\_\_  
Permit No. \_\_\_\_\_

Boring No. D-17/18  
Sheet 1  
of 1

Field location of boring:

Drilling Co.: Cascade Drilling  
Drill Rig Model: \_\_\_\_\_  
Drilling Method: Hand Auger  
Hole Diameter: \_\_\_\_\_  
Drillers Name: \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Soil Boring Completion: \_\_\_\_\_

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to Date 8/23/12	Depth to Date	DESCRIPTION
										Time	Time	
					1							6" concrete surface  50% silt very fine sand mix, 40% cobbles, 10% gravel, boulders present, brown, slightly damp
					2							
1540	HA	3.1	6	D17/18-4'	3							
					4							
					5							
					6							
					7							
					8							
					9							
					10							
					11							
					12							
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					30							
					31							

**APPENDIX C**

**DRILLING AND SOIL SAMPLING PROCEDURES**

## **DRILLING, SOIL SAMPLING, AND BORING ABANDONMENT PROCEDURES**

### **1.0 DRILLING PROCEDURES**

#### **1.1 Drilling Equipment**

Soil borings drilled around the UST area were drilled using a truck-mounted hollow-stem auger drilling rig (Model CME-75). The drilling rig was outfitted with hollow-stem auger flights five feet in length. The drilling rig was equipped with all additional tools and support equipment necessary to complete each soil boring to the desired depth. Soil borings drilled around and beneath the dispensers and distribution piping were drilled using a non-mechanized hand auger with five-foot flights.

#### **1.2 Drilling Procedures**

Prior to drilling, a utility search was conducted for each boring not installed in a former underground storage tank basin. The utility search was conducted with a post hole digger and a hand auger by a member of the drilling support crew. Each utility search was terminated at a depth of approximately five feet below the ground surface. After the utility search, the drilling rig was positioned at the drilling location and stabilized using four hydraulic leveling pistons. After the drilling rig was seated and stable, the mast was raised into position. The hollow-stem augers were advanced until reaching each target sampling depth. When the target sampling depth was reached, the top auger flight was disconnected from the drive assembly near the ground surface and the sampling equipment was placed down the borehole using a wireline and a downhole drive hammer. Following soil sample collection, the auger flights were reconnected and drilling proceeded to the next sampling depth. This process continued until the total depth of the boring was reached and all of the desired soil samples were collected.

In the hand-augered soil borings, the auger assembly was advanced to the target soil sampling depth using either the sand or mud auger head (as appropriate) and five-foot solid-stem auger flights.

#### **1.3 Drilling QA/QC**

All drilling equipment, including the rig, hollow-stem auger flights, and hand-auger assembly, were decontaminated prior to arriving at the site and after completing each boring to prevent cross-contamination. The equipment was steam cleaned, rinsed with water, and allowed to air dry.

### **2.0 SOIL SAMPLE COLLECTION AND PRESERVATION PROCEDURES**

#### **2.1 Qualifications of Sampling Personnel**

All soil samples were handled by personnel from Blaes Environmental. Blaes Environmental personnel have drilled over 650 soil borings, collected over 1,400 soil samples, and have installed over 270 groundwater wells in the last 10 years. Further, Blaes Environmental maintains up to date information on regulatory requirements and standards relating to soil and groundwater sampling.

#### **2.2 Soil Sampling Equipment**

Soil samples collected from the UST zone were collected using the drilling drive hammer and accessories. Soil samples collected from the hand augered borings were collected directly from the bucket or using a Modified California split-spoon sampler consisting of an outer sampling barrel lined with three 6-inch long brass sample rings. When the drive hammer was used, the sample rings were placed inside the split barrel halves, which were held in place by a bottom drive shoe and an external top sub. Soil Samples collected from the hand-augered soil borings were collected using a non-mechanized drive sampling equipment consisting of solid-stem rods attached to a 30-pound drive hammer and drive shoe (containing a six-inch brass sample ring).

#### **2.3 Soil Sampling Procedures**

Soil samples were collected at approximate 5-foot depths within each boring, typically beginning at a depth of approximately 10 feet below the ground surface. After drilling to the desired sampling depth, the split-spoon or drive sampler was attached to the wireline or rods and lowered through the hollow-stem

augers. The sampler was driven approximately 12 to 18-inches into undisturbed soil by the drive hammer for the samples collected from the tank zone and driven approximately six-inches into undisturbed soil by the drive hammer for the samples collected in the hand-augered borings. The number of hammer blow counts was recorded on the lithologic log sheets.

After the sampler was retrieved, the sample rings were removed from the sample barrel/shoe. Blaes Environmental submitted the soil from the lead sample sleeve (some prepared with methanol) for laboratory analysis. Samples were labeled, placed in sealable plastic bags, and placed on ice in a cooler. A written record of each sample was entered on a Chain-of-Custody, a copy of which remained with the samples until it arrived at the analytical laboratory. The lithologic characteristics of the soil from the upper sample rings were described using the Unified Soil Classification System (USCS).

#### 2.4 Decontamination Procedures During Soil Sampling

All sampling equipment was decontaminated prior to arriving on site and between each sampling depth to prevent cross-contamination between samples. The sampling equipment was washed with a laboratory soap solution, rinsed twice with tap water, and allowed to air dry.

#### 2.5 Methods Used to Prevent Volatile Losses During Sampling Program

Following retrieval of the sampler, a member of the drilling crew handed the sampler to the Blaes Environmental field personnel. Blaes Environmental removed the sample sleeves from the sampler and immediately sealed the ends of each ring with plastic end caps placing the samples into the ice chest. In some cases, the samples were prepared using EPA Method 5035 with methanol.

#### 2.6 Methods Used to Preserve the Samples Until Delivery to the Laboratory

All samples were stored in the cooler or sample refrigerator (chilled to approximately 33 degrees Fahrenheit) by Blaes Environmental for pick up by the laboratory the following morning or were directly delivered from the site to the laboratory. All samples were stored on ice in a cooler during transport.

#### 2.7 Chain-of-Custody Documentation

All soil samples were logged onto a Chain-of-Custody record in the field. When the samples were picked up by the laboratory, each sample was transferred directly to an ice chest for transport to the laboratory. The laboratory member that transferred the samples signed the Chain-of-Custody verifying that the samples were properly delivered in-tact and chilled.

### 3.0 SOIL BORING ABANDONMENT PROCEDURES

Soil cuttings from each soil boring were used as backfill to abandon the soil boring. If contaminated soil was observed, care was taken to return the contaminated soil to the same zone within the soil boring from which it was taken. Any excess clean soil was spread on site in the planter areas. Any excess soil containing potential (non-hazardous) petroleum hydrocarbons was temporarily stored in 55-gallon DOT approved drums for proper disposal.

**APPENDIX D**  
**LABORATORY REPORT**  
**AND CHAIN-OF-CUSTODY DOCUMENTATION**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-34631-2  
Client Project/Site: SUNMART #30

For:  
Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
8/30/2012 4:34:26 PM

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

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## Job ID: 580-34631-2

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### Laboratory: TestAmerica Seattle

#### Narrative

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##### Receipt

The samples were received on 8/25/2012 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

##### Except:

The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): B-1-65 (580-34631-7), B-1-70 (580-34631-8), D-1/2 (580-34631-9), D-11/12-5 (580-34631-14), D-15/16-5 (580-34631-16), D-17/18 (580-34631-17), D-3/4 (580-34631-10), D-5/6 (580-34631-11), D-7/8 (580-34631-12), D-9/10-5 (580-34631-13).

Sample 7: Container labels list time of 0920; COC lists 0900 as sampling time.

Sample 8: The label on the MeOH container lists 08/23/12 while the COC lists 08/24/12 as the sampling date.

Sample 9: 08/23/12 is listed on the label of the 4oz jar and 1 stir bar container. COC lists 08/24/12.

Sample 10: The labels lists 1138 as the sampling time and a date of 08/23/12 is on the 4oz jar and 1 stir bar container. COC lists date and time of 08/24/12 1130.

Sample 11: 08/23/12 is listed on the labels of the 4oz jar and both stir bar containers for this sample. The COC lists the sampling date as 08/24/12.

Sample 12: Container labels list D-7/8-5.5 as the sample ID and a date of 08/23/12 on the 4oz jar and both stir bar containers. COC lists ID as D-7/8 and a date of 08/24/12.

Sample 13: Container labels list ID as D-9/10-4.5; COC lists D-9/10.

Sample 17: Container labels list sample ID as D-17/18-4 and there is no sampling time listed on the label of the MeOH container. The COC lists D-17/18 as the sample ID and a time of 1540.

Samples 9-11, 14 and 16: On all containers labels, the sample IDs end with a -5 however this -5 is not included with the sample IDs on the COC.

In all cases listed above, the samples were logged in according to the information listed on the COC.

##### GC/MS VOA - Method(s) 8260B:

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 580-118595 exceeded control limits for the following analyte: 1,2-Dichloropropane. This analyte was biased high in the LCS and LCSD but was not detected in the associated samples; therefore, the data have been flagged as appropriate and reported.

No other analytical or quality issues were noted.

## Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

**Client Sample ID: B-1-55**

**Lab Sample ID: 580-34631-5**

**Date Collected: 08/24/12 08:45**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Chloromethane	ND		350		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Vinyl chloride	ND		6.9		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Bromomethane	ND		120		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Chloroethane	ND		350		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Trichlorofluoromethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1-Dichloroethene	ND		17		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Methylene Chloride	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
trans-1,2-Dichloroethene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1-Dichloroethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
2,2-Dichloropropane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
cis-1,2-Dichloroethene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Chlorobromomethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Chloroform	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1,1-Trichloroethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Carbon tetrachloride	ND		17		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1-Dichloropropene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Benzene	ND		14		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,2-Dichloroethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Trichloroethene	ND		14		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,2-Dichloropropane	ND	*	10		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Dibromomethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Dichlorobromomethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
cis-1,3-Dichloropropene	ND		14		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Toluene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
trans-1,3-Dichloropropene	ND		14		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1,2-Trichloroethane	ND		10		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Tetrachloroethene	ND		17		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,3-Dichloropropane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Chlorodibromomethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Ethylene Dibromide	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Chlorobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
<b>Ethylbenzene</b>	<b>110</b>		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1,1,2-Tetrachloroethane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,1,2,2-Tetrachloroethane	ND		8.7		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Styrene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Bromoform	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
<b>Isopropylbenzene</b>	<b>1300</b>		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Bromobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
<b>N-Propylbenzene</b>	<b>3300</b>		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,2,3-Trichloropropane	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
2-Chlorotoluene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
4-Chlorotoluene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
tert-Butylbenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
<b>sec-Butylbenzene</b>	<b>1700</b>		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,3-Dichlorobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
<b>4-Isopropyltoluene</b>	<b>1100</b>		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,4-Dichlorobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,2-Dichlorobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,2-Dibromo-3-Chloropropane	ND		170		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
1,2,4-Trichlorobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

**Client Sample ID: B-1-55**

**Lab Sample ID: 580-34631-5**

**Date Collected: 08/24/12 08:45**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Hexachlorobutadiene	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1
Methyl tert-butyl ether	ND		35		ug/Kg	☼	08/27/12 08:15	08/27/12 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	107		80 - 120	08/27/12 08:15	08/27/12 16:58	1
Toluene-d8 (Surr)	103		80 - 120	08/27/12 08:15	08/27/12 16:58	1
Ethylbenzene-d10	103		70 - 120	08/27/12 08:15	08/27/12 16:58	1
4-Bromofluorobenzene (Surr)	102		70 - 120	08/27/12 08:15	08/27/12 16:58	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	19000		1700		ug/Kg	☼	08/27/12 08:15	08/27/12 15:27	50
o-Xylene	16000		1700		ug/Kg	☼	08/27/12 08:15	08/27/12 15:27	50
1,3,5-Trimethylbenzene	30000		1700		ug/Kg	☼	08/27/12 08:15	08/27/12 15:27	50
1,2,4-Trimethylbenzene	110000		1700		ug/Kg	☼	08/27/12 08:15	08/27/12 15:27	50
n-Butylbenzene	12000		1700		ug/Kg	☼	08/27/12 08:15	08/27/12 15:27	50
Naphthalene	76000		1700		ug/Kg	☼	08/27/12 08:15	08/27/12 15:27	50

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2300		170		mg/Kg	☼	08/27/12 13:58	08/30/12 09:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	08/27/12 13:58	08/30/12 09:58	50

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-118558/1-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Chloromethane	ND		400		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Vinyl chloride	ND		8.0		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Bromomethane	ND		140		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Chloroethane	ND		400		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Trichlorofluoromethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1-Dichloroethene	ND		20		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Methylene Chloride	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
trans-1,2-Dichloroethene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1-Dichloroethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
2,2-Dichloropropane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
cis-1,2-Dichloroethene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Chlorobromomethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Chloroform	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1,1-Trichloroethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Carbon tetrachloride	ND		20		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1-Dichloropropene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Benzene	ND		16		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2-Dichloroethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Trichloroethene	ND		16		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2-Dichloropropane	ND		12		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Dibromomethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Dichlorobromomethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
cis-1,3-Dichloropropene	ND		16		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Toluene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
trans-1,3-Dichloropropene	ND		16		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1,2-Trichloroethane	ND		12		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Tetrachloroethene	ND		20		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,3-Dichloropropane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Chlorodibromomethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Ethylene Dibromide	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Chlorobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Ethylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1,1,2-Tetrachloroethane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,1,2,2-Tetrachloroethane	ND		10		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
m-Xylene & p-Xylene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
o-Xylene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Styrene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Bromoform	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Isopropylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Bromobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
N-Propylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2,3-Trichloropropane	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
2-Chlorotoluene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
4-Chlorotoluene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
tert-Butylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
sec-Butylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-118558/1-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
4-Isopropyltoluene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,4-Dichlorobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
n-Butylbenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2-Dichlorobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2-Dibromo-3-Chloropropane	ND		200		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2,4-Trichlorobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
1,2,3-Trichlorobenzene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Hexachlorobutadiene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Naphthalene	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1
Methyl tert-butyl ether	ND		40		ug/Kg		08/27/12 08:15	08/27/12 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	100		80 - 120	08/27/12 08:15	08/27/12 11:17	1
Toluene-d8 (Surr)	97		80 - 120	08/27/12 08:15	08/27/12 11:17	1
Ethylbenzene-d10	103		70 - 120	08/27/12 08:15	08/27/12 11:17	1
4-Bromofluorobenzene (Surr)	90		70 - 120	08/27/12 08:15	08/27/12 11:17	1
Trifluorotoluene (Surr)	100		65 - 140	08/27/12 08:15	08/27/12 11:17	1

**Lab Sample ID: LCS 580-118558/2-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	801	619		ug/Kg		77	35 - 135
Chloromethane	799	748		ug/Kg		94	50 - 130
Vinyl chloride	800	766		ug/Kg		96	60 - 125
Bromomethane	799	849		ug/Kg		106	30 - 160
Chloroethane	800	1030		ug/Kg		129	40 - 155
Trichlorofluoromethane	800	844		ug/Kg		106	25 - 185
1,1-Dichloroethene	801	946		ug/Kg		118	65 - 135
Methylene Chloride	800	961		ug/Kg		120	55 - 140
trans-1,2-Dichloroethene	801	941		ug/Kg		117	65 - 135
1,1-Dichloroethane	800	914		ug/Kg		114	75 - 125
2,2-Dichloropropane	799	866		ug/Kg		108	65 - 135
cis-1,2-Dichloroethene	801	859		ug/Kg		107	65 - 125
Chlorobromomethane	802	848		ug/Kg		106	70 - 125
Chloroform	800	842		ug/Kg		105	70 - 125
1,1,1-Trichloroethane	800	811		ug/Kg		101	70 - 135
Carbon tetrachloride	803	727		ug/Kg		91	65 - 135
1,1-Dichloropropene	802	858		ug/Kg		107	70 - 135
Benzene	799	787		ug/Kg		98	75 - 125
1,2-Dichloroethane	801	823		ug/Kg		103	70 - 135
Trichloroethene	812	867		ug/Kg		107	75 - 125
1,2-Dichloropropane	800	973 *		ug/Kg		122	70 - 120
Dibromomethane	802	799		ug/Kg		100	75 - 130
Dichlorobromomethane	809	701		ug/Kg		87	70 - 130
cis-1,3-Dichloropropene	790	691		ug/Kg		87	70 - 125
Toluene	801	804		ug/Kg		100	70 - 125

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-118558/2-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	812	694		ug/Kg		85	65 - 125
1,1,2-Trichloroethane	802	826		ug/Kg		103	60 - 125
Tetrachloroethene	800	869		ug/Kg		109	65 - 140
1,3-Dichloropropane	801	780		ug/Kg		97	75 - 125
Chlorodibromomethane	810	651		ug/Kg		80	65 - 130
Ethylene Dibromide	802	811		ug/Kg		101	70 - 125
Chlorobenzene	800	780		ug/Kg		98	75 - 125
Ethylbenzene	800	816		ug/Kg		102	75 - 125
1,1,1,2-Tetrachloroethane	802	695		ug/Kg		87	75 - 125
1,1,1,2,2-Tetrachloroethane	799	774		ug/Kg		97	55 - 130
m-Xylene & p-Xylene	1600	1750		ug/Kg		109	80 - 125
o-Xylene	802	875		ug/Kg		109	75 - 125
Styrene	802	811		ug/Kg		101	75 - 125
Bromoform	800	781		ug/Kg		98	55 - 135
Isopropylbenzene	802	777		ug/Kg		97	75 - 130
Bromobenzene	801	786		ug/Kg		98	65 - 120
N-Propylbenzene	800	823		ug/Kg		103	65 - 135
1,2,3-Trichloropropane	802	824		ug/Kg		103	65 - 130
2-Chlorotoluene	801	837		ug/Kg		105	70 - 130
1,3,5-Trimethylbenzene	799	785		ug/Kg		98	65 - 135
4-Chlorotoluene	802	862		ug/Kg		108	75 - 125
tert-Butylbenzene	802	709		ug/Kg		88	65 - 130
1,2,4-Trimethylbenzene	800	760		ug/Kg		95	65 - 135
sec-Butylbenzene	800	763		ug/Kg		95	65 - 130
1,3-Dichlorobenzene	801	813		ug/Kg		102	70 - 125
4-Isopropyltoluene	800	705		ug/Kg		88	75 - 135
1,4-Dichlorobenzene	801	778		ug/Kg		97	70 - 125
n-Butylbenzene	800	914		ug/Kg		114	65 - 140
1,2-Dichlorobenzene	800	807		ug/Kg		101	75 - 120
1,2-Dibromo-3-Chloropropane	801	622		ug/Kg		78	40 - 135
1,2,4-Trichlorobenzene	802	846		ug/Kg		105	65 - 130
1,2,3-Trichlorobenzene	800	863		ug/Kg		108	60 - 135
Hexachlorobutadiene	802	911		ug/Kg		114	55 - 140
Naphthalene	800	726		ug/Kg		91	40 - 125
Methyl tert-butyl ether	800	830		ug/Kg		104	65 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Fluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	104		80 - 120
Ethylbenzene-d10	102		70 - 120
4-Bromofluorobenzene (Surr)	107		70 - 120
Trifluorotoluene (Surr)	97		65 - 140

**Lab Sample ID: LCSD 580-118558/22-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Dichlorodifluoromethane	801	629		ug/Kg		79	35 - 135	2	30	

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-118558/22-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits	RPD	Limit
Chloromethane	799	750		ug/Kg		94	50 - 130	0	30
Vinyl chloride	800	780		ug/Kg		98	60 - 125	2	30
Bromomethane	799	878		ug/Kg		110	30 - 160	3	30
Chloroethane	800	887		ug/Kg		111	40 - 155	15	30
Trichlorofluoromethane	800	794		ug/Kg		99	25 - 185	6	30
1,1-Dichloroethene	801	926		ug/Kg		116	65 - 135	2	30
Methylene Chloride	800	918		ug/Kg		115	55 - 140	5	30
trans-1,2-Dichloroethene	801	921		ug/Kg		115	65 - 135	2	30
1,1-Dichloroethane	800	888		ug/Kg		111	75 - 125	3	30
2,2-Dichloropropane	799	933		ug/Kg		117	65 - 135	7	30
cis-1,2-Dichloroethene	801	845		ug/Kg		106	65 - 125	2	30
Chlorobromomethane	802	870		ug/Kg		109	70 - 125	3	30
Chloroform	800	845		ug/Kg		106	70 - 125	0	30
1,1,1-Trichloroethane	800	842		ug/Kg		105	70 - 135	4	30
Carbon tetrachloride	803	749		ug/Kg		93	65 - 135	3	30
1,1-Dichloropropene	802	855		ug/Kg		107	70 - 135	0	30
Benzene	799	791		ug/Kg		99	75 - 125	0	30
1,2-Dichloroethane	801	829		ug/Kg		103	70 - 135	1	30
Trichloroethene	812	865		ug/Kg		107	75 - 125	0	30
1,2-Dichloropropane	800	971 *		ug/Kg		121	70 - 120	0	30
Dibromomethane	802	835		ug/Kg		104	75 - 130	4	30
Dichlorobromomethane	809	716		ug/Kg		88	70 - 130	2	30
cis-1,3-Dichloropropene	790	737		ug/Kg		93	70 - 125	7	30
Toluene	801	814		ug/Kg		102	70 - 125	1	30
trans-1,3-Dichloropropene	812	731		ug/Kg		90	65 - 125	5	30
1,1,2-Trichloroethane	802	856		ug/Kg		107	60 - 125	4	30
Tetrachloroethene	800	856		ug/Kg		107	65 - 140	2	30
1,3-Dichloropropane	801	824		ug/Kg		103	75 - 125	5	30
Chlorodibromomethane	810	677		ug/Kg		84	65 - 130	4	30
Ethylene Dibromide	802	849		ug/Kg		106	70 - 125	5	30
Chlorobenzene	800	792		ug/Kg		99	75 - 125	2	30
Ethylbenzene	800	824		ug/Kg		103	75 - 125	1	30
1,1,1,2-Tetrachloroethane	802	704		ug/Kg		88	75 - 125	1	30
1,1,1,2,2-Tetrachloroethane	799	805		ug/Kg		101	55 - 130	4	30
m-Xylene & p-Xylene	1600	1760		ug/Kg		110	80 - 125	1	30
o-Xylene	802	880		ug/Kg		110	75 - 125	1	30
Styrene	802	828		ug/Kg		103	75 - 125	2	30
Bromoform	800	834		ug/Kg		104	55 - 135	7	30
Isopropylbenzene	802	792		ug/Kg		99	75 - 130	2	30
Bromobenzene	801	801		ug/Kg		100	65 - 120	2	30
N-Propylbenzene	800	835		ug/Kg		104	65 - 135	1	30
1,2,3-Trichloropropane	802	878		ug/Kg		110	65 - 130	6	30
2-Chlorotoluene	801	841		ug/Kg		105	70 - 130	1	30
1,3,5-Trimethylbenzene	799	789		ug/Kg		99	65 - 135	0	30
4-Chlorotoluene	802	864		ug/Kg		108	75 - 125	0	30
tert-Butylbenzene	802	704		ug/Kg		88	65 - 130	1	30
1,2,4-Trimethylbenzene	800	761		ug/Kg		95	65 - 135	0	30
sec-Butylbenzene	800	755		ug/Kg		94	65 - 130	1	30
1,3-Dichlorobenzene	801	808		ug/Kg		101	70 - 125	1	30
4-Isopropyltoluene	800	703		ug/Kg		88	75 - 135	0	30

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-118558/22-A**

**Matrix: Solid**

**Analysis Batch: 118595**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118558**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	801	798		ug/Kg		100	70 - 125	3	30
n-Butylbenzene	800	918		ug/Kg		115	65 - 140	0	30
1,2-Dichlorobenzene	800	796		ug/Kg		99	75 - 120	1	30
1,2-Dibromo-3-Chloropropane	801	655		ug/Kg		82	40 - 135	5	30
1,2,4-Trichlorobenzene	802	866		ug/Kg		108	65 - 130	2	30
1,2,3-Trichlorobenzene	800	879		ug/Kg		110	60 - 135	2	30
Hexachlorobutadiene	802	893		ug/Kg		111	55 - 140	2	30
Naphthalene	800	769		ug/Kg		96	40 - 125	6	30
Methyl tert-butyl ether	800	827		ug/Kg		103	65 - 125	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Fluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	105		80 - 120
Ethylbenzene-d10	107		70 - 120
4-Bromofluorobenzene (Surr)	107		70 - 120
Trifluorotoluene (Surr)	98		65 - 140

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-118623/1-A**

**Matrix: Solid**

**Analysis Batch: 118637**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118623**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/27/12 13:17	08/28/12 13:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150	08/27/12 13:17	08/28/12 13:06	1
Trifluorotoluene (Surr)	105		50 - 150	08/27/12 13:17	08/28/12 13:06	1

**Lab Sample ID: MB 580-118623/1-A**

**Matrix: Solid**

**Analysis Batch: 118876**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118623**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/27/12 13:17	08/30/12 09:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		50 - 150	08/27/12 13:17	08/30/12 09:32	1
Trifluorotoluene (Surr)	109		50 - 150	08/27/12 13:17	08/30/12 09:32	1

**Lab Sample ID: LCS 580-118623/2-A**

**Matrix: Solid**

**Analysis Batch: 118637**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118623**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	39.1		mg/Kg		98	68 - 120

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 580-118623/2-A**

**Matrix: Solid**

**Analysis Batch: 118637**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118623**

<i>Surrogate</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
4-Bromofluorobenzene (Surr)	102		50 - 150
Trifluorotoluene (Surr)	99		50 - 150

**Lab Sample ID: LCSD 580-118623/3-A**

**Matrix: Solid**

**Analysis Batch: 118637**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118623**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>		<i>RPD</i>	
							<i>Limits</i>	<i>RPD</i>	<i>Limit</i>	<i>Limit</i>
Gasoline	40.0	36.6		mg/Kg		92	68 - 120	6	25	

<i>Surrogate</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
4-Bromofluorobenzene (Surr)	102		50 - 150
Trifluorotoluene (Surr)	97		50 - 150

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

**Client Sample ID: B-1-55**

**Lab Sample ID: 580-34631-5**

**Date Collected: 08/24/12 08:45**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.2**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	5035	DL		118558	08/27/12 08:15	EZ	TAL SEA
Total/NA	Analysis	8260B	DL	50	118595	08/27/12 15:27	SK	TAL SEA
Total/NA	Prep	5035			118558	08/27/12 08:15	EZ	TAL SEA
Total/NA	Analysis	8260B		1	118595	08/27/12 16:58	SK	TAL SEA
Total/NA	Prep	5035	DL		118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx	DL	50	118876	08/30/12 09:58	GH	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

## Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-2

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34631-5	B-1-55	Solid	08/24/12 08:45	08/25/12 09:20

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Chain of Custody Record

Client Contact		Project Manager: Dan Blaes		TA Project Manager: Ella Sandquist		Date:	
Blaes Environmental Inc		Tel/Fax: 602-549-0925		Lab Phone # 253-922-2310		Carrier:	
45 E Monterey Way, Suite 200		Billing contact:		Carrier:		COCs	
Phoenix, AZ 85012		Analysis Turnaround Time		Carrier:		COCs	
602-549-0925		TAT: If different from Below		Carrier:		COCs	
Project Name: SUNMARK #30		10 days		Carrier:		COCs	
Site: 201-00001-30		5 days		Carrier:		COCs	
P.O.#		2 days		Carrier:		COCs	
		1 day		Carrier:		COCs	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:
1- B-1-20	8/24/12	1534			Soil	4	
2- B-1-35	8/24/12	1605			Soil	4	
3- B-1-40	8/24/12	1648			Soil	4	
4- B-1-45	8/24/12	1700			Soil	4	
5- B-1-55	8/24/12	845			Soil	4	
6- B-1-60	8/24/12	859			Soil	4	
7- B-1-65	8/24/12	900			Soil	4	
8- B-1-70	8/24/12	940			Soil	4	
9- D-1/2	8/24/12	846			Soil	4	
10- D-3/4	8/24/12	1130			Soil	4	
11- D-5/6	8/24/12	930			Soil	4	
12- D-7/8	8/24/12	755			Soil	4	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other		Poison B		Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification		Flammable		Skin Irritant		Return To Client	
Non-Hazard		Poison B		Unknown		Disposal By Lab	
Special Instructions/QC Requirements & Comments:		Flammable		Skin Irritant		Archive For	
Cooler/TB Dig (R) cor 4-2 unc 4-1		Flammable		Skin Irritant		Months	
Cooler Dsc Log B/L/W/1/1@ Lab		Flammable		Skin Irritant		Archive For	
WebPacks Packing bubble		Flammable		Skin Irritant		Archive For	
w/b		Flammable		Skin Irritant		Archive For	
Client Dir		Flammable		Skin Irritant		Archive For	
NWTPH-Dx		Flammable		Skin Irritant		Archive For	
NWTPH-Gx		Flammable		Skin Irritant		Archive For	
8260 VOCs		Flammable		Skin Irritant		Archive For	
Filtered Sample		Flammable		Skin Irritant		Archive For	
Company: BUES		Date/Time: 8/24/12 1320		Received by: [Signature]		Company: BUES	
Company: TA-SEA		Date/Time: 08/25/2012 0920		Received by: Leah Riley Nicole Riley		Company: TA-SEA	
Company:		Date/Time:		Received by:		Company:	





## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-34631-2

**Login Number: 34631**

**List Number: 1**

**Creator: Riley, Nicole**

**List Source: TestAmerica Seattle**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	This information is not filled out on the COC.
There are no discrepancies between the sample IDs on the containers and the COC.	False	See NCM.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	See NCM for discrepancies.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-34631-1  
Client Project/Site: SUNMART #30

For:  
Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
9/13/2012 10:15:13 AM

Ella Sandquist  
Project Manager I  
[ella.sandquist@testamericainc.com](mailto:ella.sandquist@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Job ID: 580-34631-1**

**Laboratory: TestAmerica Seattle**

## Narrative

### Receipt

The samples were received on 8/25/2012 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

Except:

The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): B-1-65 (580-34631-7), B-1-70 (580-34631-8), D-1/2 (580-34631-9), D-11/12-5 (580-34631-14), D-15/16-5 (580-34631-16), D-17/18 (580-34631-17), D-3/4 (580-34631-10), D-5/6 (580-34631-11), D-7/8 (580-34631-12), D-9/10-5 (580-34631-13).

Sample 7: Container labels list time of 0920; COC lists 0900 as sampling time.

Sample 8: The label on the MeOH container lists 08/23/12 while the COC lists 08/24/12 as the sampling date.

Sample 9: 08/23/12 is listed on the label of the 4oz jar and 1 stir bar container. COC lists 08/24/12.

Sample 10: The labels lists 1138 as the sampling time and a date of 08/23/12 is on the 4oz jar and 1 stir bar container. COC lists date and time of 08/24/12 1130.

Sample 11: 08/23/12 is listed on the labels of the 4oz jar and both stir bar containers for this sample. The COC lists the sampling date as 08/24/12.

Sample 12: Container labels list D-7/8-5.5 as the sample ID and a date of 08/23/12 on the 4oz jar and both stir bar containers. COC lists ID as D-7/8 and a date of 08/24/12.

Sample 13: Container labels list ID as D-9/10-4.5; COC lists D-9/10.

Sample 17: Container labels list sample ID as D-17/18-4 and there is no sampling time listed on the label of the MeOH container. The COC lists D-17/18 as the sample ID and a time of 1540.

Samples 9-11, 14 and 16: On all containers labels, the sample IDs end with a -5 however this -5 is not included with the sample IDs on the COC.

In all cases listed above, the samples were logged in according to the information listed on the COC.

### GC/MS VOA - Method(s) 8260B:

The continuing calibration verification (CCV) for 2,2-Dichloropropane and tert-Butylbenzene associated with batch 580-119485 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCSD) for batch 580-119485 exceeded control limits for the following analyte: 2,2-Dichloropropane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The following sample was analyzed outside of analytical holding time due to over capacity of low level 8260B analyses: D-17/18 (580-34631-17).

Sample IDW-SOIL (580-34631-18) exceeded calibration range for the target compounds n-Butylbenzene; 1,2,4-Trimethylbenzene; and Naphthalene in the direct sparge soil (DSS) analysis performed in analytical batch 580-119485. The effected targets have been set to not needed in the DSS analysis and have been reported from the methanolic sample analysis.

The continuing calibration verification (CCV) for tert-Butylbenzene and 2,2-Dichloropropane associated with batch 580-119485 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Sample D-7/8 (580-34631-12) was initially analyzed as both a direct sparge soil (DSS) and a methanolic extract. This was done because in the opinion of the analyst, the chromatogram obtained from the GRO analysis was acceptable to be analyzed as a low level analysis but could have required analysis of the methanolic vial due to one or more target compounds exceeding the DSS calibration range.

The DSS analysis showed no target compounds and no appreciable amount of non targets in the DSS chromatogram. The methanolic analysis showed several target compounds within calibration range and numerous non target peaks.

It is the opinion of the analyst that the two provided samples cannot be the same. As such; all vials, analyzed and not analyzed, were checked to see if there was the potential for sample mislabeling. All sample container vials reconciled with the coc with the exceptions already noted in the ncms generated by sample control.

# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Job ID: 580-34631-1 (Continued)

### Laboratory: TestAmerica Seattle (Continued)

Surrogate recovery for the following sample was outside control limits: B-1-70 (580-34631-8). Evidence of matrix interference is present (see chromatogram); therefore, re-extraction and/or re-analysis was not performed.

The following sample(s) required a dilution which was performed outside of the analytical holding time: B-1-40 (580-34631-3), B-1-45 (580-34631-4), B-1-60 (580-34631-6), B-1-65 (580-34631-7).

#### GC/MS VOA - Method(s) NWTPH-Gx:

The continuing calibration verification (CCV 580-118637/34) for GRO analyte associated with batch 118637 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### GC Semi VOA - Method(s) NWTPH-Dx:

For sample IDW-WATER (580-34631-19), the results in the C10-C24 range(s) are due to what most closely resembles a complex mixture of a gasoline/kerosene range product, heavily weathered/degraded diesel fuel and/or a mineral/transformer oil range product. The affected analyte range(s) have been Y qualified and reported.

For samples B-1-40 (580-34631-3) and B-1-45 (580-34631-4), the results in the C10-C24 range(s) are due to what most closely resembles a complex mixture of weathered gasoline product, a kerosene range product, heavily weathered/degraded diesel fuel and/or a mineral/transformer oil range product.

For samples B-1-60 (580-34631-6), B-1-65 (580-34631-7), and D-7/8 (580-34631-12), the results in the C10-C24 range(s) are due to what most closely resembles a mixture of a weathered/degraded jet fuel/kerosene range product and heavily weathered/degraded diesel fuel.

For sample IDW-SOIL (580-34631-18), the results in the C10-C24 range(s) are due to what most closely resembles a mixture of a gasoline/kerosene range product and heavily weathered/degraded diesel fuel.

The affected analyte range(s) have been Y qualified and reported.

In analytical batch 119406, surrogate recovery for the following sample(s) from preparation batch 119460 was outside the upper control limit: D-1/2 (580-34631-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The matrix duplicate %RPD for C10-C24 associated with prep/analysis batch 119515/119530 was outside the control limits due to non homogeneity of the sample. (580-34631-18 DU), IDW-SOIL (580-34631-18)

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.
I	Indicates the presence of an interference, recovery is not calculated.
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
X	Surrogate is outside control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-20**

**Lab Sample ID: 580-34631-1**

**Date Collected: 08/23/12 15:34**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 94.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Chloromethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Vinyl chloride	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Bromomethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Chloroethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Trichlorofluoromethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1-Dichloroethene	ND		4.6		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Methylene Chloride	ND		14		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
trans-1,2-Dichloroethene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1-Dichloroethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
2,2-Dichloropropane	ND	* ^	0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
cis-1,2-Dichloroethene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Chlorobromomethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Chloroform	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1,1-Trichloroethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Carbon tetrachloride	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1-Dichloropropene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Benzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2-Dichloroethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Trichloroethene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2-Dichloropropane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Dibromomethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Dichlorobromomethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
cis-1,3-Dichloropropene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Toluene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
trans-1,3-Dichloropropene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1,2-Trichloroethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Tetrachloroethene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,3-Dichloropropane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Chlorodibromomethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Ethylene Dibromide	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Chlorobenzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Ethylbenzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1,1,2-Tetrachloroethane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,1,2,2-Tetrachloroethane	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
m-Xylene & p-Xylene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
o-Xylene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Styrene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Bromoform	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Isopropylbenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Bromobenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
N-Propylbenzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2,3-Trichloropropane	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
2-Chlorotoluene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
4-Chlorotoluene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
tert-Butylbenzene	ND	^	1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
sec-Butylbenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,3-Dichlorobenzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
4-Isopropyltoluene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-20**

**Lab Sample ID: 580-34631-1**

**Date Collected: 08/23/12 15:34**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 94.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
n-Butylbenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2-Dichlorobenzene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2-Dibromo-3-Chloropropane	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2,4-Trichlorobenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
1,2,3-Trichlorobenzene	ND		1.8		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Hexachlorobutadiene	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Naphthalene	ND		4.6		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
Methyl tert-butyl ether	ND		0.91		ug/Kg	☼	09/06/12 18:45	09/06/12 21:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	97		80 - 120				09/06/12 18:45	09/06/12 21:22	1
Toluene-d8 (Surr)	97		80 - 120				09/06/12 18:45	09/06/12 21:22	1
Ethylbenzene-d10	97		70 - 120				09/06/12 18:45	09/06/12 21:22	1
4-Bromofluorobenzene (Surr)	95		70 - 120				09/06/12 18:45	09/06/12 21:22	1
Trifluorotoluene (Surr)	111		65 - 140				09/06/12 18:45	09/06/12 21:22	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.3		mg/Kg	☼	08/27/12 13:58	08/29/12 00:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	100		50 - 150				08/27/12 13:58	08/29/12 00:06	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		51		mg/Kg	☼	09/05/12 17:14	09/06/12 16:29	1
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/05/12 17:14	09/06/12 16:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	84		50 - 150				09/05/12 17:14	09/06/12 16:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			09/04/12 14:40	1
Percent Moisture	5.2		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-35**

**Lab Sample ID: 580-34631-2**

**Date Collected: 08/23/12 16:05**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 90.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Chloromethane	ND		420		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Vinyl chloride	ND		8.5		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Bromomethane	ND		150		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Chloroethane	ND		420		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Trichlorofluoromethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1-Dichloroethene	ND		21		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Methylene Chloride	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
trans-1,2-Dichloroethene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1-Dichloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
2,2-Dichloropropane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
cis-1,2-Dichloroethene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Chlorobromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Chloroform	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1,1-Trichloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Carbon tetrachloride	ND		21		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1-Dichloropropene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Benzene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,2-Dichloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Trichloroethene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,2-Dichloropropane	ND		13		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Dibromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Dichlorobromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
cis-1,3-Dichloropropene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Toluene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
trans-1,3-Dichloropropene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1,2-Trichloroethane	ND		13		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Tetrachloroethene	ND		21		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,3-Dichloropropane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Chlorodibromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Ethylene Dibromide	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Chlorobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Ethylbenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1,1,2-Tetrachloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,1,2,2-Tetrachloroethane	ND		11		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
<b>m-Xylene &amp; p-Xylene</b>	<b>130</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
<b>o-Xylene</b>	<b>130</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Styrene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Bromoform	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Isopropylbenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
Bromobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
N-Propylbenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,2,3-Trichloropropane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
2-Chlorotoluene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
<b>1,3,5-Trimethylbenzene</b>	<b>1100</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
4-Chlorotoluene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
tert-Butylbenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
<b>1,2,4-Trimethylbenzene</b>	<b>4200</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
sec-Butylbenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
1,3-Dichlorobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1
<b>4-Isopropyltoluene</b>	<b>46</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 21:10	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-35**

**Lab Sample ID: 580-34631-2**

**Date Collected: 08/23/12 16:05**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 90.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
<b>n-Butylbenzene</b>	<b>200</b>		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
1,2-Dichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
1,2-Dibromo-3-Chloropropane	ND		210		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
1,2,4-Trichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
1,2,3-Trichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
Hexachlorobutadiene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
<b>Naphthalene</b>	<b>680</b>		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
Methyl tert-butyl ether	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 21:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	95		80 - 120				09/06/12 11:06	09/06/12 21:10	1
Toluene-d8 (Surr)	100		80 - 120				09/06/12 11:06	09/06/12 21:10	1
Ethylbenzene-d10	99		70 - 120				09/06/12 11:06	09/06/12 21:10	1
4-Bromofluorobenzene (Surr)	99		70 - 120				09/06/12 11:06	09/06/12 21:10	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>73</b>		4.2		mg/Kg	☼	08/27/12 13:58	08/30/12 12:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	99		50 - 150				08/27/12 13:58	08/30/12 12:37	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/05/12 17:14	09/06/12 16:46	1
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/05/12 17:14	09/06/12 16:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	75		50 - 150				09/05/12 17:14	09/06/12 16:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>91</b>		0.10		%			09/04/12 14:40	1
<b>Percent Moisture</b>	<b>9.1</b>		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-40**

**Lab Sample ID: 580-34631-3**

**Date Collected: 08/23/12 16:48**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 83.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Chloromethane	ND		410		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Vinyl chloride	ND		8.2		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Bromomethane	ND		140		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Chloroethane	ND		410		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Trichlorofluoromethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1-Dichloroethene	ND		20		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Methylene Chloride	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
trans-1,2-Dichloroethene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1-Dichloroethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
2,2-Dichloropropane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
cis-1,2-Dichloroethene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Chlorobromomethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Chloroform	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1,1-Trichloroethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Carbon tetrachloride	ND		20		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1-Dichloropropene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Benzene	ND		16		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,2-Dichloroethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Trichloroethene	ND		16		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,2-Dichloropropane	ND		12		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Dibromomethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Dichlorobromomethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
cis-1,3-Dichloropropene	ND		16		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Toluene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
trans-1,3-Dichloropropene	ND		16		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1,2-Trichloroethane	ND		12		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Tetrachloroethene	ND		20		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,3-Dichloropropane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Chlorodibromomethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Ethylene Dibromide	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Chlorobenzene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Ethylbenzene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1,1,2-Tetrachloroethane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,1,2,2-Tetrachloroethane	ND		10		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>m-Xylene &amp; p-Xylene</b>	<b>110</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>o-Xylene</b>	<b>77</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Styrene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Bromoform	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Isopropylbenzene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
Bromobenzene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>N-Propylbenzene</b>	<b>47</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,2,3-Trichloropropane	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
2-Chlorotoluene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>1,3,5-Trimethylbenzene</b>	<b>830</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
4-Chlorotoluene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
tert-Butylbenzene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>1,2,4-Trimethylbenzene</b>	<b>4300</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>sec-Butylbenzene</b>	<b>61</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
1,3-Dichlorobenzene	ND		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1
<b>4-Isopropyltoluene</b>	<b>84</b>		41		ug/Kg	*	09/06/12 11:06	09/06/12 21:33	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-40**

**Lab Sample ID: 580-34631-3**

Date Collected: 08/23/12 16:48

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 83.3

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
<b>n-Butylbenzene</b>	<b>1000</b>		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
1,2-Dichlorobenzene	ND		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
1,2-Dibromo-3-Chloropropane	ND		200		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
1,2,4-Trichlorobenzene	ND		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
1,2,3-Trichlorobenzene	ND		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
Hexachlorobutadiene	ND		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
Methyl tert-butyl ether	ND		41		ug/Kg	☼	09/06/12 11:06	09/06/12 21:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	98		80 - 120				09/06/12 11:06	09/06/12 21:33	1
Toluene-d8 (Surr)	109		80 - 120				09/06/12 11:06	09/06/12 21:33	1
Ethylbenzene-d10	96		70 - 120				09/06/12 11:06	09/06/12 21:33	1
4-Bromofluorobenzene (Surr)	101		70 - 120				09/06/12 11:06	09/06/12 21:33	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Naphthalene</b>	<b>15000</b>	<b>H</b>	820		ug/Kg	☼	09/06/12 11:06	09/08/12 11:24	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>560</b>		20		mg/Kg	☼	08/27/12 13:58	08/30/12 11:44	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		50 - 150				08/27/12 13:58	08/30/12 11:44	5

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		58		mg/Kg	☼	09/05/12 17:14	09/06/12 17:03	1
<b>#2 Diesel (C10-C24)</b>	<b>250</b>	<b>Y</b>	29		mg/Kg	☼	09/05/12 17:14	09/06/12 17:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	78		50 - 150				09/05/12 17:14	09/06/12 17:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>83</b>		0.10		%			09/04/12 14:40	1
<b>Percent Moisture</b>	<b>17</b>		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-45**

**Lab Sample ID: 580-34631-4**

**Date Collected: 08/23/12 17:00**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Chloromethane	ND		360		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Vinyl chloride	ND		7.2		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Bromomethane	ND		130		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Chloroethane	ND		360		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Trichlorofluoromethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1-Dichloroethene	ND		18		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Methylene Chloride	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
trans-1,2-Dichloroethene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1-Dichloroethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
2,2-Dichloropropane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
cis-1,2-Dichloroethene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Chlorobromomethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Chloroform	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1,1-Trichloroethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Carbon tetrachloride	ND		18		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1-Dichloropropene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Benzene	ND		14		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,2-Dichloroethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Trichloroethene	ND		14		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,2-Dichloropropane	ND		11		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Dibromomethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Dichlorobromomethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
cis-1,3-Dichloropropene	ND		14		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Toluene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
trans-1,3-Dichloropropene	ND		14		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1,2-Trichloroethane	ND		11		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Tetrachloroethene	ND		18		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,3-Dichloropropane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Chlorodibromomethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Ethylene Dibromide	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Chlorobenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Ethylbenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1,1,2-Tetrachloroethane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,1,2,2-Tetrachloroethane	ND		9.0		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
<b>m-Xylene &amp; p-Xylene</b>	<b>76</b>		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
<b>o-Xylene</b>	<b>66</b>		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Styrene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Bromoform	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Isopropylbenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
Bromobenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
N-Propylbenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,2,3-Trichloropropane	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
2-Chlorotoluene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
<b>1,3,5-Trimethylbenzene</b>	<b>420</b>		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
4-Chlorotoluene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
tert-Butylbenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
<b>1,2,4-Trimethylbenzene</b>	<b>1900</b>		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
sec-Butylbenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
1,3-Dichlorobenzene	ND		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1
<b>4-Isopropyltoluene</b>	<b>39</b>		36		ug/Kg	*	09/06/12 11:06	09/06/12 21:55	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-45**

**Lab Sample ID: 580-34631-4**

**Date Collected: 08/23/12 17:00**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
<b>n-Butylbenzene</b>	<b>1300</b>		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
1,2-Dichlorobenzene	ND		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
1,2-Dibromo-3-Chloropropane	ND		180		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
1,2,4-Trichlorobenzene	ND		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
1,2,3-Trichlorobenzene	ND		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
Hexachlorobutadiene	ND		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
Methyl tert-butyl ether	ND		36		ug/Kg	☼	09/06/12 11:06	09/06/12 21:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	104		80 - 120				09/06/12 11:06	09/06/12 21:55	1
Toluene-d8 (Surr)	118		80 - 120				09/06/12 11:06	09/06/12 21:55	1
Ethylbenzene-d10	95		70 - 120				09/06/12 11:06	09/06/12 21:55	1
4-Bromofluorobenzene (Surr)	97		70 - 120				09/06/12 11:06	09/06/12 21:55	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Naphthalene</b>	<b>17000</b>	<b>H</b>	720		ug/Kg	☼	09/06/12 11:06	09/08/12 11:47	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>460</b>		18		mg/Kg	☼	08/27/12 13:58	08/30/12 12:10	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	99		50 - 150				08/27/12 13:58	08/30/12 12:10	5

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		49		mg/Kg	☼	09/05/12 17:14	09/06/12 17:19	1
<b>#2 Diesel (C10-C24)</b>	<b>270</b>	<b>Y</b>	24		mg/Kg	☼	09/05/12 17:14	09/06/12 17:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	82		50 - 150				09/05/12 17:14	09/06/12 17:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>95</b>		0.10		%			09/04/12 14:40	1
<b>Percent Moisture</b>	<b>4.6</b>		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-55**

**Lab Sample ID: 580-34631-5**

**Date Collected: 08/24/12 08:45**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.2**

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		50		mg/Kg	☆	08/30/12 11:26	08/30/12 23:37	1
<b>#2 Diesel (C10-C24)</b>	<b>1400</b>		25		mg/Kg	☆	08/30/12 11:26	08/30/12 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	99		50 - 150				08/30/12 11:26	08/30/12 23:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>95</b>		0.10		%			08/28/12 12:51	1
<b>Percent Moisture</b>	<b>4.8</b>		0.10		%			08/28/12 12:51	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-60**

**Lab Sample ID: 580-34631-6**

**Date Collected: 08/24/12 08:59**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 95.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Chloromethane	ND		320		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Vinyl chloride	ND		6.4		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Bromomethane	ND		110		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Chloroethane	ND		320		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Trichlorofluoromethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1-Dichloroethene	ND		16		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Methylene Chloride	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
trans-1,2-Dichloroethene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1-Dichloroethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
2,2-Dichloropropane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
cis-1,2-Dichloroethene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Chlorobromomethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Chloroform	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1,1-Trichloroethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Carbon tetrachloride	ND		16		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1-Dichloropropene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Benzene	ND		13		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,2-Dichloroethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Trichloroethene	ND		13		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,2-Dichloropropane	ND		9.6		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Dibromomethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Dichlorobromomethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
cis-1,3-Dichloropropene	ND		13		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Toluene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
trans-1,3-Dichloropropene	ND		13		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1,2-Trichloroethane	ND		9.6		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Tetrachloroethene	ND		16		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,3-Dichloropropane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Chlorodibromomethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Ethylene Dibromide	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Chlorobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>Ethylbenzene</b>	<b>94</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1,1,2-Tetrachloroethane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,1,2,2-Tetrachloroethane	ND		8.0		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>m-Xylene &amp; p-Xylene</b>	<b>11000</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Styrene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Bromoform	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>Isopropylbenzene</b>	<b>1300</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Bromobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>N-Propylbenzene</b>	<b>3100</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,2,3-Trichloropropane	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>2-Chlorotoluene</b>	<b>48</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,3,5-Trimethylbenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>4-Chlorotoluene</b>	<b>60</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
tert-Butylbenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>sec-Butylbenzene</b>	<b>1200</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,3-Dichlorobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
<b>4-Isopropyltoluene</b>	<b>820</b>		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,4-Dichlorobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,2-Dichlorobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-60**

**Lab Sample ID: 580-34631-6**

Date Collected: 08/24/12 08:59

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 95.4

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		160		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,2,4-Trichlorobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
1,2,3-Trichlorobenzene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Hexachlorobutadiene	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1
Methyl tert-butyl ether	ND		32		ug/Kg	☼	09/06/12 11:06	09/06/12 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	100		80 - 120	09/06/12 11:06	09/06/12 22:18	1
Toluene-d8 (Surr)	110		80 - 120	09/06/12 11:06	09/06/12 22:18	1
Ethylbenzene-d10	108		70 - 120	09/06/12 11:06	09/06/12 22:18	1
4-Bromofluorobenzene (Surr)	112		70 - 120	09/06/12 11:06	09/06/12 22:18	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>13000</b>	<b>H</b>	640		ug/Kg	☼	09/06/12 11:06	09/08/12 12:10	20
<b>1,2,4-Trimethylbenzene</b>	<b>90000</b>	<b>H</b>	640		ug/Kg	☼	09/06/12 11:06	09/08/12 12:10	20
<b>n-Butylbenzene</b>	<b>16000</b>	<b>H</b>	640		ug/Kg	☼	09/06/12 11:06	09/08/12 12:10	20
<b>Naphthalene</b>	<b>29000</b>	<b>H</b>	640		ug/Kg	☼	09/06/12 11:06	09/08/12 12:10	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>1500</b>		80		mg/Kg	☼	08/27/12 13:58	08/30/12 10:25	25
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
4-Bromofluorobenzene (Surr)	99		50 - 150	08/27/12 13:58	08/30/12 10:25	25			

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		51		mg/Kg	☼	09/06/12 15:08	09/06/12 22:55	1
<b>#2 Diesel (C10-C24)</b>	<b>340</b>	<b>Y</b>	26		mg/Kg	☼	09/06/12 15:08	09/06/12 22:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
o-Terphenyl	94		50 - 150	09/06/12 15:08	09/06/12 22:55	1			

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>95</b>		0.10		%			09/04/12 14:40	1
<b>Percent Moisture</b>	<b>4.6</b>		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-65**

**Lab Sample ID: 580-34631-7**

**Date Collected: 08/24/12 09:00**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 81.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Chloromethane	ND		420		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Vinyl chloride	ND		8.5		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Bromomethane	ND		150		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Chloroethane	ND		420		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Trichlorofluoromethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1-Dichloroethene	ND		21		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Methylene Chloride	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
trans-1,2-Dichloroethene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1-Dichloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
2,2-Dichloropropane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
cis-1,2-Dichloroethene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Chlorobromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Chloroform	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1,1-Trichloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Carbon tetrachloride	ND		21		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1-Dichloropropene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Benzene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,2-Dichloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Trichloroethene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,2-Dichloropropane	ND		13		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Dibromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Dichlorobromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
cis-1,3-Dichloropropene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Toluene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
trans-1,3-Dichloropropene	ND		17		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1,2-Trichloroethane	ND		13		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Tetrachloroethene	ND		21		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,3-Dichloropropane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Chlorodibromomethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Ethylene Dibromide	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Chlorobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>Ethylbenzene</b>	<b>60</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1,1,2-Tetrachloroethane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,1,2,2-Tetrachloroethane	ND		11		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>m-Xylene &amp; p-Xylene</b>	<b>10000</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>o-Xylene</b>	<b>7900</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Styrene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Bromoform	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>Isopropylbenzene</b>	<b>970</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
Bromobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>N-Propylbenzene</b>	<b>2300</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,2,3-Trichloropropane	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
2-Chlorotoluene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>1,3,5-Trimethylbenzene</b>	<b>15000 E</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
4-Chlorotoluene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
tert-Butylbenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>sec-Butylbenzene</b>	<b>1000</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,3-Dichlorobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
<b>4-Isopropyltoluene</b>	<b>710</b>		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1
1,4-Dichlorobenzene	ND		42		ug/Kg	*	09/06/12 11:06	09/06/12 22:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-65**

**Lab Sample ID: 580-34631-7**

Date Collected: 08/24/12 09:00

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 81.3

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>n-Butylbenzene</b>	<b>6700</b>		42		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1
1,2-Dichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1
1,2-Dibromo-3-Chloropropane	ND		210		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1
1,2,4-Trichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1
1,2,3-Trichlorobenzene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1
Hexachlorobutadiene	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1
Methyl tert-butyl ether	ND		42		ug/Kg	☼	09/06/12 11:06	09/06/12 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	106		80 - 120	09/06/12 11:06	09/06/12 22:40	1
Toluene-d8 (Surr)	98		80 - 120	09/06/12 11:06	09/06/12 22:40	1
Ethylbenzene-d10	98		70 - 120	09/06/12 11:06	09/06/12 22:40	1
4-Bromofluorobenzene (Surr)	102		70 - 120	09/06/12 11:06	09/06/12 22:40	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>71000</b>	<b>H</b>	850		ug/Kg	☼	09/06/12 11:06	09/08/12 12:33	20
<b>Naphthalene</b>	<b>21000</b>	<b>H</b>	850		ug/Kg	☼	09/06/12 11:06	09/08/12 12:33	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>1100</b>		85		mg/Kg	☼	08/27/12 13:58	08/30/12 10:51	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		50 - 150	08/27/12 13:58	08/30/12 10:51	20

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		59		mg/Kg	☼	09/06/12 15:08	09/06/12 23:12	1
<b>#2 Diesel (C10-C24)</b>	<b>350</b>	<b>Y</b>	29		mg/Kg	☼	09/06/12 15:08	09/06/12 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		50 - 150	09/06/12 15:08	09/06/12 23:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81</b>		0.10		%			09/04/12 14:40	1
<b>Percent Moisture</b>	<b>19</b>		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-70**

**Lab Sample ID: 580-34631-8**

**Date Collected: 08/24/12 09:40**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 92.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Chloromethane	ND		370		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Vinyl chloride	ND		7.3		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Bromomethane	ND		130		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Chloroethane	ND		370		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Trichlorofluoromethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1-Dichloroethene	ND		18		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Methylene Chloride	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
trans-1,2-Dichloroethene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1-Dichloroethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
2,2-Dichloropropane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
cis-1,2-Dichloroethene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Chlorobromomethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Chloroform	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1,1-Trichloroethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Carbon tetrachloride	ND		18		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1-Dichloropropene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Benzene	ND		15		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,2-Dichloroethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Trichloroethene	ND		15		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,2-Dichloropropane	ND		11		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Dibromomethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Dichlorobromomethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
cis-1,3-Dichloropropene	ND		15		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Toluene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
trans-1,3-Dichloropropene	ND		15		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1,2-Trichloroethane	ND		11		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Tetrachloroethene	ND		18		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,3-Dichloropropane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Chlorodibromomethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Ethylene Dibromide	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Chlorobenzene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Ethylbenzene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1,1,2-Tetrachloroethane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,1,2,2-Tetrachloroethane	ND		9.1		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>m-Xylene &amp; p-Xylene</b>	<b>540</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>o-Xylene</b>	<b>460</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Styrene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Bromoform	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>Isopropylbenzene</b>	<b>60</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
Bromobenzene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>N-Propylbenzene</b>	<b>160</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,2,3-Trichloropropane	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
2-Chlorotoluene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>1,3,5-Trimethylbenzene</b>	<b>1600</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
4-Chlorotoluene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
tert-Butylbenzene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>1,2,4-Trimethylbenzene</b>	<b>5200</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>sec-Butylbenzene</b>	<b>96</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
1,3-Dichlorobenzene	ND		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1
<b>4-Isopropyltoluene</b>	<b>61</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:03	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-70**

**Lab Sample ID: 580-34631-8**

**Date Collected: 08/24/12 09:40**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 92.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
<b>n-Butylbenzene</b>	<b>1200</b>		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
1,2-Dichlorobenzene	ND		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
1,2-Dibromo-3-Chloropropane	ND		180		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
1,2,4-Trichlorobenzene	ND		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
1,2,3-Trichlorobenzene	ND		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
Hexachlorobutadiene	ND		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
<b>Naphthalene</b>	<b>2800</b>		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
Methyl tert-butyl ether	ND		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	104		80 - 120				09/06/12 11:06	09/06/12 23:03	1
Toluene-d8 (Surr)	99		80 - 120				09/06/12 11:06	09/06/12 23:03	1
Ethylbenzene-d10	109		70 - 120				09/06/12 11:06	09/06/12 23:03	1
4-Bromofluorobenzene (Surr)	126	X I	70 - 120				09/06/12 11:06	09/06/12 23:03	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>130</b>		3.7		mg/Kg	☼	08/27/12 13:58	08/30/12 13:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	104		50 - 150				08/27/12 13:58	08/30/12 13:03	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/06/12 15:08	09/06/12 23:29	1
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/06/12 15:08	09/06/12 23:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	113		50 - 150				09/06/12 15:08	09/06/12 23:29	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>92</b>		0.10		%			09/06/12 11:49	1
<b>Percent Moisture</b>	<b>7.9</b>		0.10		%			09/06/12 11:49	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-1/2**

**Lab Sample ID: 580-34631-9**

**Date Collected: 08/24/12 08:40**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 82.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Chloromethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Vinyl chloride	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Bromomethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Chloroethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Trichlorofluoromethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1-Dichloroethene	ND		5.2		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Methylene Chloride	ND		16		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1-Dichloroethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
2,2-Dichloropropane	ND	* ^	1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Chlorobromomethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Chloroform	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Carbon tetrachloride	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1-Dichloropropene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Benzene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,2-Dichloroethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Trichloroethene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,2-Dichloropropane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Dibromomethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Dichlorobromomethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Toluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Tetrachloroethene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,3-Dichloropropane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Chlorodibromomethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Ethylene Dibromide	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Chlorobenzene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Ethylbenzene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,1,2,2-Tetrachloroethane	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
m-Xylene & p-Xylene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
o-Xylene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Styrene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Bromoform	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Isopropylbenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
Bromobenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
N-Propylbenzene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,2,3-Trichloropropane	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
2-Chlorotoluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,3,5-Trimethylbenzene	ND		5.2		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
4-Chlorotoluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
tert-Butylbenzene	ND	^	2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,2,4-Trimethylbenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
sec-Butylbenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1
4-Isopropyltoluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 21:45	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-1/2**

**Lab Sample ID: 580-34631-9**

**Date Collected: 08/24/12 08:40**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 82.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
n-Butylbenzene	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
1,2-Dibromo-3-Chloropropane	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
1,2,3-Trichlorobenzene	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
Hexachlorobutadiene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
Naphthalene	ND		5.2		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
Methyl tert-butyl ether	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 21:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	95		80 - 120				09/06/12 18:45	09/06/12 21:45	1
Toluene-d8 (Surr)	96		80 - 120				09/06/12 18:45	09/06/12 21:45	1
Ethylbenzene-d10	97		70 - 120				09/06/12 18:45	09/06/12 21:45	1
4-Bromofluorobenzene (Surr)	97		70 - 120				09/06/12 18:45	09/06/12 21:45	1
Trifluorotoluene (Surr)	69		65 - 140				09/06/12 18:45	09/06/12 21:45	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>5.0</b>		4.6		mg/Kg	☼	08/27/12 13:58	08/31/12 21:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		50 - 150				08/27/12 13:58	08/31/12 21:45	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		60		mg/Kg	☼	09/06/12 15:08	09/06/12 23:45	1
#2 Diesel (C10-C24)	ND		30		mg/Kg	☼	09/06/12 15:08	09/06/12 23:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	162	X	50 - 150				09/06/12 15:08	09/06/12 23:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>82</b>		0.10		%			09/04/12 14:40	1
<b>Percent Moisture</b>	<b>18</b>		0.10		%			09/04/12 14:40	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-3/4**

**Lab Sample ID: 580-34631-10**

**Date Collected: 08/24/12 11:30**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 92.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Chloromethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Vinyl chloride	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Bromomethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Chloroethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Trichlorofluoromethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1-Dichloroethene	ND		5.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Methylene Chloride	ND		15		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
trans-1,2-Dichloroethene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1-Dichloroethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
2,2-Dichloropropane	ND	* ^	0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
cis-1,2-Dichloroethene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Chlorobromomethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Chloroform	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1,1-Trichloroethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Carbon tetrachloride	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1-Dichloropropene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Benzene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,2-Dichloroethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Trichloroethene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,2-Dichloropropane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Dibromomethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Dichlorobromomethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
cis-1,3-Dichloropropene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Toluene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
trans-1,3-Dichloropropene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1,2-Trichloroethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Tetrachloroethene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,3-Dichloropropane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Chlorodibromomethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Ethylene Dibromide	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Chlorobenzene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Ethylbenzene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1,1,2-Tetrachloroethane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
o-Xylene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Styrene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Bromoform	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Isopropylbenzene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
Bromobenzene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
N-Propylbenzene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,2,3-Trichloropropane	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
2-Chlorotoluene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
4-Chlorotoluene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
tert-Butylbenzene	ND	^	2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
sec-Butylbenzene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
1,3-Dichlorobenzene	ND		0.99		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1
4-Isopropyltoluene	ND		2.0		ug/Kg	*	09/06/12 18:45	09/06/12 22:09	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-3/4**

**Lab Sample ID: 580-34631-10**

**Date Collected: 08/24/12 11:30**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 92.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.99		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
n-Butylbenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
1,2-Dichlorobenzene	ND		0.99		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
Hexachlorobutadiene	ND		0.99		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
Naphthalene	ND		5.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
Methyl tert-butyl ether	ND		0.99		ug/Kg	☼	09/06/12 18:45	09/06/12 22:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	99		80 - 120				09/06/12 18:45	09/06/12 22:09	1
Toluene-d8 (Surr)	96		80 - 120				09/06/12 18:45	09/06/12 22:09	1
Ethylbenzene-d10	95		70 - 120				09/06/12 18:45	09/06/12 22:09	1
4-Bromofluorobenzene (Surr)	95		70 - 120				09/06/12 18:45	09/06/12 22:09	1
Trifluorotoluene (Surr)	100		65 - 140				09/06/12 18:45	09/06/12 22:09	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.2		mg/Kg	☼	08/29/12 13:48	08/29/12 19:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		50 - 150				08/29/12 13:48	08/29/12 19:54	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		52		mg/Kg	☼	09/06/12 15:08	09/07/12 00:02	1
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/06/12 15:08	09/07/12 00:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	115		50 - 150				09/06/12 15:08	09/07/12 00:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/04/12 15:34	1
Percent Moisture	7.5		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-5/6**

**Lab Sample ID: 580-34631-11**

**Date Collected: 08/24/12 09:30**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 88.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Chloromethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Vinyl chloride	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Bromomethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Chloroethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Trichlorofluoromethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1-Dichloroethene	ND		5.1		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Methylene Chloride	ND		15		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1-Dichloroethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
2,2-Dichloropropane	ND	* ^	1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Chlorobromomethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Chloroform	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Carbon tetrachloride	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1-Dichloropropene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Benzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2-Dichloroethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Trichloroethene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2-Dichloropropane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Dibromomethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Dichlorobromomethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Toluene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
trans-1,3-Dichloropropene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Tetrachloroethene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,3-Dichloropropane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Chlorodibromomethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Ethylene Dibromide	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Chlorobenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Ethylbenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
o-Xylene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Styrene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Bromoform	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Isopropylbenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Bromobenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
N-Propylbenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2,3-Trichloropropane	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
2-Chlorotoluene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,3,5-Trimethylbenzene	ND		5.1		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
4-Chlorotoluene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
tert-Butylbenzene	ND	^	2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
sec-Butylbenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
4-Isopropyltoluene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-5/6**

**Lab Sample ID: 580-34631-11**

**Date Collected: 08/24/12 09:30**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 88.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
n-Butylbenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Hexachlorobutadiene	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Naphthalene	ND		5.1		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1
Methyl tert-butyl ether	ND		1.0		ug/Kg	☼	09/06/12 18:45	09/06/12 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	97		80 - 120	09/06/12 18:45	09/06/12 22:32	1
Toluene-d8 (Surr)	94		80 - 120	09/06/12 18:45	09/06/12 22:32	1
Ethylbenzene-d10	94		70 - 120	09/06/12 18:45	09/06/12 22:32	1
4-Bromofluorobenzene (Surr)	91		70 - 120	09/06/12 18:45	09/06/12 22:32	1
Trifluorotoluene (Surr)	86		65 - 140	09/06/12 18:45	09/06/12 22:32	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.3		mg/Kg	☼	08/29/12 13:48	08/29/12 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	08/29/12 13:48	08/29/12 20:17	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/06/12 15:08	09/07/12 00:19	1
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/06/12 15:08	09/07/12 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	149		50 - 150	09/06/12 15:08	09/07/12 00:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10		%			09/04/12 15:34	1
Percent Moisture	11		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-7/8**

**Lab Sample ID: 580-34631-12**

**Date Collected: 08/24/12 07:55**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 79.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Dichlorodifluoromethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Chloromethane	ND		490		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Chloromethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Vinyl chloride	ND		9.7		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Vinyl chloride	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Bromomethane	ND		170		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Bromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Chloroethane	ND		490		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Chloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Trichlorofluoromethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Trichlorofluoromethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
1,1-Dichloroethene	ND		24		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
1,1-Dichloroethene	ND		5.9		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Methylene Chloride	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Methylene Chloride	ND		18		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
trans-1,2-Dichloroethene	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
trans-1,2-Dichloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
1,1-Dichloroethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
1,1-Dichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
2,2-Dichloropropane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
2,2-Dichloropropane	ND	* ^	1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
cis-1,2-Dichloroethene	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
cis-1,2-Dichloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Chlorobromomethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Chlorobromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Chloroform	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Chloroform	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
1,1,1-Trichloroethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
1,1,1-Trichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Carbon tetrachloride	ND		24		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Carbon tetrachloride	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
1,1-Dichloropropene	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
1,1-Dichloropropene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
<b>Benzene</b>	<b>34</b>		19		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Benzene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
1,2-Dichloroethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
1,2-Dichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Trichloroethene	ND		19		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Trichloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
1,2-Dichloropropane	ND		15		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
1,2-Dichloropropane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Dibromomethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Dibromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
Dichlorobromomethane	ND		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Dichlorobromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
cis-1,3-Dichloropropene	ND		19		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
cis-1,3-Dichloropropene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
<b>Toluene</b>	<b>500</b>		49		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1
Toluene	ND		2.3		ug/Kg	*	09/06/12 18:45	09/07/12 00:51	1
trans-1,3-Dichloropropene	ND		19		ug/Kg	*	09/06/12 11:06	09/06/12 23:26	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-7/8**

**Lab Sample ID: 580-34631-12**

**Date Collected: 08/24/12 07:55**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 79.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,1,2-Trichloroethane	ND		15		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,1,2-Trichloroethane	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Tetrachloroethene	ND		24		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Tetrachloroethene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,3-Dichloropropane	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,3-Dichloropropane	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Chlorodibromomethane	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Chlorodibromomethane	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Ethylene Dibromide	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Ethylene Dibromide	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Chlorobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Chlorobenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>Ethylbenzene</b>	<b>74</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Ethylbenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,1,1,2-Tetrachloroethane	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,1,1,2-Tetrachloroethane	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,1,2,2-Tetrachloroethane	ND		12		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,1,2,2-Tetrachloroethane	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>m-Xylene &amp; p-Xylene</b>	<b>1500</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
m-Xylene & p-Xylene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>o-Xylene</b>	<b>1100</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
o-Xylene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Styrene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Styrene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Bromoform	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Bromoform	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Isopropylbenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Isopropylbenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Bromobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Bromobenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>N-Propylbenzene</b>	<b>49</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
N-Propylbenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,2,3-Trichloropropane	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,2,3-Trichloropropane	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
2-Chlorotoluene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
2-Chlorotoluene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>1,3,5-Trimethylbenzene</b>	<b>970</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,3,5-Trimethylbenzene	ND		5.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
4-Chlorotoluene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
4-Chlorotoluene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
tert-Butylbenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
tert-Butylbenzene	ND	^	2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>1,2,4-Trimethylbenzene</b>	<b>2300</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,2,4-Trimethylbenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
sec-Butylbenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
sec-Butylbenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,3-Dichlorobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,3-Dichlorobenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
4-Isopropyltoluene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
4-Isopropyltoluene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-7/8**

**Lab Sample ID: 580-34631-12**

**Date Collected: 08/24/12 07:55**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 79.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,4-Dichlorobenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>n-Butylbenzene</b>	<b>390</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
n-Butylbenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,2-Dichlorobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,2-Dichlorobenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,2-Dibromo-3-Chloropropane	ND		240		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,2-Dibromo-3-Chloropropane	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,2,4-Trichlorobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,2,4-Trichlorobenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
1,2,3-Trichlorobenzene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
1,2,3-Trichlorobenzene	ND		2.3		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Hexachlorobutadiene	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Hexachlorobutadiene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
<b>Naphthalene</b>	<b>520</b>		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Naphthalene	ND		5.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1
Methyl tert-butyl ether	ND		49		ug/Kg	☼	09/06/12 11:06	09/06/12 23:26	1
Methyl tert-butyl ether	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	105		80 - 120	09/06/12 11:06	09/06/12 23:26	1
Fluorobenzene (Surr)	100		80 - 120	09/06/12 18:45	09/07/12 00:51	1
Toluene-d8 (Surr)	89		80 - 120	09/06/12 11:06	09/06/12 23:26	1
Toluene-d8 (Surr)	96		80 - 120	09/06/12 18:45	09/07/12 00:51	1
Ethylbenzene-d10	109		70 - 120	09/06/12 11:06	09/06/12 23:26	1
Ethylbenzene-d10	95		70 - 120	09/06/12 18:45	09/07/12 00:51	1
4-Bromofluorobenzene (Surr)	120		70 - 120	09/06/12 11:06	09/06/12 23:26	1
4-Bromofluorobenzene (Surr)	94		70 - 120	09/06/12 18:45	09/07/12 00:51	1
Trifluorotoluene (Surr)	90		65 - 140	09/06/12 18:45	09/07/12 00:51	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>25</b>		4.9		mg/Kg	☼	08/29/12 13:48	08/29/12 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150	08/29/12 13:48	08/29/12 20:39	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		59		mg/Kg	☼	09/06/12 15:08	09/07/12 00:36	1
<b>#2 Diesel (C10-C24)</b>	<b>99</b>	<b>Y</b>	29		mg/Kg	☼	09/06/12 15:08	09/07/12 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	139		50 - 150	09/06/12 15:08	09/07/12 00:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>79</b>		0.10		%			09/04/12 15:34	1
<b>Percent Moisture</b>	<b>21</b>		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-9/10-5**

**Lab Sample ID: 580-34631-13**

**Date Collected: 08/23/12 17:10**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 77.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Chloromethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Vinyl chloride	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Bromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Chloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Trichlorofluoromethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1-Dichloroethene	ND		5.9		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Methylene Chloride	ND		18		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
trans-1,2-Dichloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1-Dichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
2,2-Dichloropropane	ND	* ^	1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
cis-1,2-Dichloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Chlorobromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Chloroform	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1,1-Trichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Carbon tetrachloride	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1-Dichloropropene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Benzene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,2-Dichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Trichloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,2-Dichloropropane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Dibromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Dichlorobromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
cis-1,3-Dichloropropene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Toluene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
trans-1,3-Dichloropropene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1,2-Trichloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Tetrachloroethene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,3-Dichloropropane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Chlorodibromomethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Ethylene Dibromide	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Chlorobenzene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Ethylbenzene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1,1,2-Tetrachloroethane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,1,2,2-Tetrachloroethane	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
m-Xylene & p-Xylene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
o-Xylene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Styrene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Bromoform	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Isopropylbenzene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
Bromobenzene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
N-Propylbenzene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,2,3-Trichloropropane	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
2-Chlorotoluene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,3,5-Trimethylbenzene	ND		5.9		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
4-Chlorotoluene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
tert-Butylbenzene	ND	^	2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,2,4-Trimethylbenzene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
sec-Butylbenzene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
1,3-Dichlorobenzene	ND		1.2		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1
4-Isopropyltoluene	ND		2.4		ug/Kg	*	09/06/12 18:45	09/06/12 22:56	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-9/10-5**

**Lab Sample ID: 580-34631-13**

**Date Collected: 08/23/12 17:10**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 77.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
n-Butylbenzene	ND		2.4		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
1,2-Dichlorobenzene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
1,2-Dibromo-3-Chloropropane	ND		2.4		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
1,2,4-Trichlorobenzene	ND		2.4		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
1,2,3-Trichlorobenzene	ND		2.4		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
Hexachlorobutadiene	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
Naphthalene	ND		5.9		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
Methyl tert-butyl ether	ND		1.2		ug/Kg	☼	09/06/12 18:45	09/06/12 22:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	98		80 - 120				09/06/12 18:45	09/06/12 22:56	1
Toluene-d8 (Surr)	95		80 - 120				09/06/12 18:45	09/06/12 22:56	1
Ethylbenzene-d10	92		70 - 120				09/06/12 18:45	09/06/12 22:56	1
4-Bromofluorobenzene (Surr)	93		70 - 120				09/06/12 18:45	09/06/12 22:56	1
Trifluorotoluene (Surr)	92		65 - 140				09/06/12 18:45	09/06/12 22:56	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.7		mg/Kg	☼	08/28/12 10:54	08/28/12 23:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		50 - 150				08/28/12 10:54	08/28/12 23:12	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		62		mg/Kg	☼	09/05/12 17:14	09/06/12 18:10	1
#2 Diesel (C10-C24)	ND		31		mg/Kg	☼	09/05/12 17:14	09/06/12 18:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	81		50 - 150				09/05/12 17:14	09/06/12 18:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10		%			09/04/12 15:34	1
Percent Moisture	23		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-11/12-5**

**Lab Sample ID: 580-34631-14**

**Date Collected: 08/23/12 17:05**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 79.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Chloromethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Vinyl chloride	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Bromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Chloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Trichlorofluoromethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1-Dichloroethene	ND		5.3		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Methylene Chloride	ND		16		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
trans-1,2-Dichloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1-Dichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
2,2-Dichloropropane	ND	* ^	1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
cis-1,2-Dichloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Chlorobromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Chloroform	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1,1-Trichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Carbon tetrachloride	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1-Dichloropropene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Benzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,2-Dichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Trichloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,2-Dichloropropane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Dibromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Dichlorobromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Toluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
trans-1,3-Dichloropropene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1,2-Trichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Tetrachloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,3-Dichloropropane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Chlorodibromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Ethylene Dibromide	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Chlorobenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Ethylbenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,1,2,2-Tetrachloroethane	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
m-Xylene & p-Xylene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
o-Xylene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Styrene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Bromoform	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Isopropylbenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
Bromobenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
N-Propylbenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,2,3-Trichloropropane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
2-Chlorotoluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,3,5-Trimethylbenzene	ND		5.3		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
4-Chlorotoluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
tert-Butylbenzene	ND	^	2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,2,4-Trimethylbenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
sec-Butylbenzene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
1,3-Dichlorobenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1
4-Isopropyltoluene	ND		2.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:19	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-11/12-5**

**Lab Sample ID: 580-34631-14**

**Date Collected: 08/23/12 17:05**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 79.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
n-Butylbenzene	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
1,2-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
1,2-Dibromo-3-Chloropropane	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
1,2,3-Trichlorobenzene	ND		2.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
Hexachlorobutadiene	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
Naphthalene	ND		5.3		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
Methyl tert-butyl ether	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	98		80 - 120				09/06/12 18:45	09/06/12 23:19	1
Toluene-d8 (Surr)	96		80 - 120				09/06/12 18:45	09/06/12 23:19	1
Ethylbenzene-d10	90		70 - 120				09/06/12 18:45	09/06/12 23:19	1
4-Bromofluorobenzene (Surr)	92		70 - 120				09/06/12 18:45	09/06/12 23:19	1
Trifluorotoluene (Surr)	98		65 - 140				09/06/12 18:45	09/06/12 23:19	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.4		mg/Kg	☼	08/28/12 10:54	08/28/12 23:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	114		50 - 150				08/28/12 10:54	08/28/12 23:34	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		62		mg/Kg	☼	09/05/12 17:14	09/06/12 18:26	1
#2 Diesel (C10-C24)	ND		31		mg/Kg	☼	09/05/12 17:14	09/06/12 18:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	80		50 - 150				09/05/12 17:14	09/06/12 18:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10		%			09/04/12 15:34	1
Percent Moisture	20		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-13/14-5**

**Lab Sample ID: 580-34631-15**

**Date Collected: 08/23/12 15:04**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 77.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Chloromethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Vinyl chloride	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Bromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Chloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Trichlorofluoromethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1-Dichloroethene	ND		5.5		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Methylene Chloride	ND		17		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
trans-1,2-Dichloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1-Dichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
2,2-Dichloropropane	ND	* ^	1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
cis-1,2-Dichloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Chlorobromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Chloroform	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1,1-Trichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Carbon tetrachloride	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1-Dichloropropene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Benzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,2-Dichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Trichloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,2-Dichloropropane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Dibromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Dichlorobromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Toluene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
trans-1,3-Dichloropropene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1,2-Trichloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Tetrachloroethene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,3-Dichloropropane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Chlorodibromomethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Ethylene Dibromide	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Chlorobenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Ethylbenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,1,2,2-Tetrachloroethane	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
m-Xylene & p-Xylene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
o-Xylene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Styrene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Bromoform	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Isopropylbenzene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
Bromobenzene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
N-Propylbenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,2,3-Trichloropropane	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
2-Chlorotoluene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,3,5-Trimethylbenzene	ND		5.5		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
4-Chlorotoluene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
tert-Butylbenzene	ND	^	2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,2,4-Trimethylbenzene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
sec-Butylbenzene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
1,3-Dichlorobenzene	ND		1.1		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1
4-Isopropyltoluene	ND		2.2		ug/Kg	*	09/06/12 18:45	09/06/12 23:42	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-13/14-5**

**Lab Sample ID: 580-34631-15**

**Date Collected: 08/23/12 15:04**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 77.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
n-Butylbenzene	ND		2.2		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
1,2-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
1,2-Dibromo-3-Chloropropane	ND		2.2		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
1,2,4-Trichlorobenzene	ND		2.2		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
1,2,3-Trichlorobenzene	ND		2.2		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
Hexachlorobutadiene	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
Naphthalene	ND		5.5		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
Methyl tert-butyl ether	ND		1.1		ug/Kg	☼	09/06/12 18:45	09/06/12 23:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	98		80 - 120				09/06/12 18:45	09/06/12 23:42	1
Toluene-d8 (Surr)	96		80 - 120				09/06/12 18:45	09/06/12 23:42	1
Ethylbenzene-d10	92		70 - 120				09/06/12 18:45	09/06/12 23:42	1
4-Bromofluorobenzene (Surr)	94		70 - 120				09/06/12 18:45	09/06/12 23:42	1
Trifluorotoluene (Surr)	93		65 - 140				09/06/12 18:45	09/06/12 23:42	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.8		mg/Kg	☼	08/28/12 10:54	08/28/12 23:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	105		50 - 150				08/28/12 10:54	08/28/12 23:56	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		61		mg/Kg	☼	09/05/12 17:14	09/06/12 18:43	1
#2 Diesel (C10-C24)	ND		31		mg/Kg	☼	09/05/12 17:14	09/06/12 18:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	75		50 - 150				09/05/12 17:14	09/06/12 18:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10		%			09/04/12 15:34	1
Percent Moisture	22		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-15/16-5**

**Lab Sample ID: 580-34631-16**

**Date Collected: 08/24/12 11:58**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 90.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Chloromethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Vinyl chloride	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Bromomethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Chloroethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Trichlorofluoromethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1-Dichloroethene	ND		4.8		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Methylene Chloride	ND		14		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
trans-1,2-Dichloroethene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1-Dichloroethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
2,2-Dichloropropane	ND	* ^	0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
cis-1,2-Dichloroethene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Chlorobromomethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Chloroform	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1,1-Trichloroethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Carbon tetrachloride	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1-Dichloropropene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Benzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2-Dichloroethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Trichloroethene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2-Dichloropropane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Dibromomethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Dichlorobromomethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
cis-1,3-Dichloropropene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Toluene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
trans-1,3-Dichloropropene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1,2-Trichloroethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Tetrachloroethene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,3-Dichloropropane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Chlorodibromomethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Ethylene Dibromide	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Chlorobenzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Ethylbenzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1,1,2-Tetrachloroethane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,1,2,2-Tetrachloroethane	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
m-Xylene & p-Xylene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
o-Xylene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Styrene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Bromoform	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Isopropylbenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Bromobenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
N-Propylbenzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2,3-Trichloropropane	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
2-Chlorotoluene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
4-Chlorotoluene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
tert-Butylbenzene	ND	^	1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
sec-Butylbenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,3-Dichlorobenzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
4-Isopropyltoluene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-15/16-5**

**Lab Sample ID: 580-34631-16**

**Date Collected: 08/24/12 11:58**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 90.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
n-Butylbenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2-Dichlorobenzene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2-Dibromo-3-Chloropropane	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
1,2,3-Trichlorobenzene	ND		1.9		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Hexachlorobutadiene	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Naphthalene	ND		4.8		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
Methyl tert-butyl ether	ND		0.95		ug/Kg	☼	09/06/12 18:45	09/07/12 00:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	97		80 - 120				09/06/12 18:45	09/07/12 00:05	1
Toluene-d8 (Surr)	94		80 - 120				09/06/12 18:45	09/07/12 00:05	1
Ethylbenzene-d10	94		70 - 120				09/06/12 18:45	09/07/12 00:05	1
4-Bromofluorobenzene (Surr)	92		70 - 120				09/06/12 18:45	09/07/12 00:05	1
Trifluorotoluene (Surr)	96		65 - 140				09/06/12 18:45	09/07/12 00:05	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.4		mg/Kg	☼	08/28/12 10:54	08/29/12 00:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	104		50 - 150				08/28/12 10:54	08/29/12 00:18	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		54		mg/Kg	☼	09/06/12 15:08	09/07/12 00:52	1
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/06/12 15:08	09/07/12 00:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	126		50 - 150				09/06/12 15:08	09/07/12 00:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			09/04/12 15:34	1
Percent Moisture	9.2		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-17/18**

**Lab Sample ID: 580-34631-17**

**Date Collected: 08/23/12 15:40**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 87.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Chloromethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Vinyl chloride	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Bromomethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Chloroethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Trichlorofluoromethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1-Dichloroethene	ND	H	5.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Methylene Chloride	ND	H	16		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
trans-1,2-Dichloroethene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1-Dichloroethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
2,2-Dichloropropane	ND	H * ^	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
cis-1,2-Dichloroethene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Chlorobromomethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Chloroform	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1,1-Trichloroethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Carbon tetrachloride	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1-Dichloropropene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Benzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2-Dichloroethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Trichloroethene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2-Dichloropropane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Dibromomethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Dichlorobromomethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
cis-1,3-Dichloropropene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Toluene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
trans-1,3-Dichloropropene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1,2-Trichloroethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Tetrachloroethene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,3-Dichloropropane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Chlorodibromomethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Ethylene Dibromide	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Chlorobenzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Ethylbenzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1,1,2-Tetrachloroethane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,1,2,2-Tetrachloroethane	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
m-Xylene & p-Xylene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
o-Xylene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Styrene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Bromoform	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Isopropylbenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Bromobenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
N-Propylbenzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2,3-Trichloropropane	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
2-Chlorotoluene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,3,5-Trimethylbenzene	ND	H	5.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
4-Chlorotoluene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
tert-Butylbenzene	ND	H ^	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2,4-Trimethylbenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
sec-Butylbenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,3-Dichlorobenzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
4-Isopropyltoluene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: D-17/18**

**Lab Sample ID: 580-34631-17**

**Date Collected: 08/23/12 15:40**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 87.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
n-Butylbenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2-Dichlorobenzene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2-Dibromo-3-Chloropropane	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2,4-Trichlorobenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
1,2,3-Trichlorobenzene	ND	H	2.1		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Hexachlorobutadiene	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Naphthalene	ND	H	5.2		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
Methyl tert-butyl ether	ND	H	1.0		ug/Kg	☼	09/06/12 18:45	09/07/12 00:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	97		80 - 120				09/06/12 18:45	09/07/12 00:28	1
Toluene-d8 (Surr)	96		80 - 120				09/06/12 18:45	09/07/12 00:28	1
Ethylbenzene-d10	97		70 - 120				09/06/12 18:45	09/07/12 00:28	1
4-Bromofluorobenzene (Surr)	91		70 - 120				09/06/12 18:45	09/07/12 00:28	1
Trifluorotoluene (Surr)	100		65 - 140				09/06/12 18:45	09/07/12 00:28	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.4		mg/Kg	☼	08/28/12 10:54	08/29/12 00:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	100		50 - 150				08/28/12 10:54	08/29/12 00:40	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		54		mg/Kg	☼	09/05/12 17:14	09/06/12 19:00	1
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/05/12 17:14	09/06/12 19:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	76		50 - 150				09/05/12 17:14	09/06/12 19:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10		%			09/04/12 15:34	1
Percent Moisture	12		0.10		%			09/04/12 15:34	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: IDW-SOIL**

**Lab Sample ID: 580-34631-18**

**Date Collected: 08/24/12 12:25**

**Matrix: Solid**

**Date Received: 08/25/12 09:20**

**Percent Solids: 91.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Chloromethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Vinyl chloride	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Bromomethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Chloroethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Trichlorofluoromethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1-Dichloroethene	ND		4.2		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Methylene Chloride	ND		13		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
trans-1,2-Dichloroethene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1-Dichloroethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
2,2-Dichloropropane	ND	* ^	0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
cis-1,2-Dichloroethene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Chlorobromomethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Chloroform	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1,1-Trichloroethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Carbon tetrachloride	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1-Dichloropropene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Benzene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,2-Dichloroethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Trichloroethene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,2-Dichloropropane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Dibromomethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Dichlorobromomethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
cis-1,3-Dichloropropene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Toluene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
trans-1,3-Dichloropropene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1,2-Trichloroethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Tetrachloroethene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,3-Dichloropropane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Chlorodibromomethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Ethylene Dibromide	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Chlorobenzene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Ethylbenzene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1,1,2-Tetrachloroethane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
<b>m-Xylene &amp; p-Xylene</b>	<b>3.7</b>		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
<b>o-Xylene</b>	<b>3.6</b>		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Styrene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Bromoform	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Isopropylbenzene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
Bromobenzene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
<b>N-Propylbenzene</b>	<b>4.2</b>		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,2,3-Trichloropropane	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
2-Chlorotoluene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
<b>1,3,5-Trimethylbenzene</b>	<b>55</b>		4.2		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
4-Chlorotoluene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
tert-Butylbenzene	ND	^	1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
<b>1,2,4-Trimethylbenzene</b>	<b>2300</b>		37		ug/Kg	*	09/06/12 11:06	09/06/12 23:48	1
sec-Butylbenzene	ND		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
1,3-Dichlorobenzene	ND		0.84		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1
<b>4-Isopropyltoluene</b>	<b>3.6</b>		1.7		ug/Kg	*	09/06/12 18:45	09/07/12 01:14	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: IDW-SOIL**

**Lab Sample ID: 580-34631-18**

Date Collected: 08/24/12 12:25

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 91.1

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.84		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1
<b>n-Butylbenzene</b>	<b>610</b>		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:48	1
1,2-Dichlorobenzene	ND		0.84		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1
1,2-Dibromo-3-Chloropropane	ND		1.7		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1
1,2,3-Trichlorobenzene	ND		1.7		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1
Hexachlorobutadiene	ND		0.84		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1
<b>Naphthalene</b>	<b>750</b>		37		ug/Kg	☼	09/06/12 11:06	09/06/12 23:48	1
Methyl tert-butyl ether	ND		0.84		ug/Kg	☼	09/06/12 18:45	09/07/12 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	105		80 - 120	09/06/12 11:06	09/06/12 23:48	1
Fluorobenzene (Surr)	98		80 - 120	09/06/12 18:45	09/07/12 01:14	1
Toluene-d8 (Surr)	96		80 - 120	09/06/12 11:06	09/06/12 23:48	1
Toluene-d8 (Surr)	96		80 - 120	09/06/12 18:45	09/07/12 01:14	1
Ethylbenzene-d10	96		70 - 120	09/06/12 11:06	09/06/12 23:48	1
Ethylbenzene-d10	89		70 - 120	09/06/12 18:45	09/07/12 01:14	1
4-Bromofluorobenzene (Surr)	99		70 - 120	09/06/12 11:06	09/06/12 23:48	1
4-Bromofluorobenzene (Surr)	100		70 - 120	09/06/12 18:45	09/07/12 01:14	1
Trifluorotoluene (Surr)	92		65 - 140	09/06/12 18:45	09/07/12 01:14	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>57</b>		3.7		mg/Kg	☼	08/28/12 10:54	08/29/12 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	08/28/12 10:54	08/29/12 01:02	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/07/12 09:51	09/07/12 21:47	1
<b>#2 Diesel (C10-C24)</b>	<b>38</b>	<b>Y</b>	27		mg/Kg	☼	09/07/12 09:51	09/07/12 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	09/07/12 09:51	09/07/12 21:47	1

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		08/28/12 13:16	08/29/12 13:24	1
<b>Barium</b>	<b>0.49</b>		0.010		mg/L		08/28/12 13:16	08/29/12 13:24	1
Cadmium	ND		0.010		mg/L		08/28/12 13:16	08/29/12 13:24	1
Chromium	ND		0.025		mg/L		08/28/12 13:16	08/29/12 13:24	1
<b>Lead</b>	<b>0.034</b>		0.030		mg/L		08/28/12 13:16	08/29/12 13:24	1
Selenium	ND		0.10		mg/L		08/28/12 13:16	08/29/12 13:24	1
Silver	ND		0.020		mg/L		08/28/12 13:16	08/29/12 13:24	1
<b>Nickel</b>	<b>0.034</b>		0.020		mg/L		08/28/12 13:16	08/29/12 13:24	1
Copper	ND		0.020		mg/L		08/28/12 13:16	08/29/12 13:24	1
<b>Zinc</b>	<b>0.19</b>		0.040		mg/L		08/28/12 13:16	08/29/12 13:24	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		08/28/12 13:42	08/28/12 16:29	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: IDW-SOIL**

**Lab Sample ID: 580-34631-18**

Date Collected: 08/24/12 12:25

Matrix: Solid

Date Received: 08/25/12 09:20

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			09/04/12 15:34	1
Percent Moisture	8.9		0.10		%			09/04/12 15:34	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: IDW-WATER**

**Lab Sample ID: 580-34631-19**

Date Collected: 08/24/12 13:00

Matrix: Water

Date Received: 08/25/12 09:20

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0		ug/L			08/29/12 14:19	1
Chloromethane	ND		5.0		ug/L			08/29/12 14:19	1
Vinyl chloride	ND		1.0		ug/L			08/29/12 14:19	1
Bromomethane	ND		5.0		ug/L			08/29/12 14:19	1
Chloroethane	ND		5.0		ug/L			08/29/12 14:19	1
Trichlorofluoromethane	ND		1.0		ug/L			08/29/12 14:19	1
1,1-Dichloroethene	ND		1.0		ug/L			08/29/12 14:19	1
Methylene Chloride	ND		3.0		ug/L			08/29/12 14:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/29/12 14:19	1
1,1-Dichloroethane	ND		1.0		ug/L			08/29/12 14:19	1
2,2-Dichloropropane	ND		1.0		ug/L			08/29/12 14:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/29/12 14:19	1
Chlorobromomethane	ND		1.0		ug/L			08/29/12 14:19	1
<b>Chloroform</b>	<b>2.6</b>		1.0		ug/L			08/29/12 14:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/29/12 14:19	1
Carbon tetrachloride	ND		1.0		ug/L			08/29/12 14:19	1
1,1-Dichloropropene	ND		1.0		ug/L			08/29/12 14:19	1
Benzene	ND		1.0		ug/L			08/29/12 14:19	1
1,2-Dichloroethane	ND		1.0		ug/L			08/29/12 14:19	1
Trichloroethene	ND		1.0		ug/L			08/29/12 14:19	1
1,2-Dichloropropane	ND		1.0		ug/L			08/29/12 14:19	1
Dibromomethane	ND		1.0		ug/L			08/29/12 14:19	1
Dichlorobromomethane	ND		1.0		ug/L			08/29/12 14:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/29/12 14:19	1
Toluene	ND		1.0		ug/L			08/29/12 14:19	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/29/12 14:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/29/12 14:19	1
Tetrachloroethene	ND		1.0		ug/L			08/29/12 14:19	1
1,3-Dichloropropane	ND		1.0		ug/L			08/29/12 14:19	1
Chlorodibromomethane	ND		1.0		ug/L			08/29/12 14:19	1
Ethylene Dibromide	ND		1.0		ug/L			08/29/12 14:19	1
Chlorobenzene	ND		1.0		ug/L			08/29/12 14:19	1
Ethylbenzene	ND		1.0		ug/L			08/29/12 14:19	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/29/12 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/29/12 14:19	1
<b>m-Xylene &amp; p-Xylene</b>	<b>10</b>		2.0		ug/L			08/29/12 14:19	1
<b>o-Xylene</b>	<b>8.7</b>		1.0		ug/L			08/29/12 14:19	1
Styrene	ND		1.0		ug/L			08/29/12 14:19	1
Bromoform	ND		1.0		ug/L			08/29/12 14:19	1
Isopropylbenzene	ND		1.0		ug/L			08/29/12 14:19	1
Bromobenzene	ND		1.0		ug/L			08/29/12 14:19	1
<b>N-Propylbenzene</b>	<b>2.3</b>		1.0		ug/L			08/29/12 14:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/29/12 14:19	1
2-Chlorotoluene	ND		1.0		ug/L			08/29/12 14:19	1
<b>1,3,5-Trimethylbenzene</b>	<b>24</b>		1.0		ug/L			08/29/12 14:19	1
4-Chlorotoluene	ND		1.0		ug/L			08/29/12 14:19	1
tert-Butylbenzene	ND		1.0		ug/L			08/29/12 14:19	1
<b>1,2,4-Trimethylbenzene</b>	<b>89</b>		1.0		ug/L			08/29/12 14:19	1
<b>sec-Butylbenzene</b>	<b>1.0</b>		1.0		ug/L			08/29/12 14:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/29/12 14:19	1
4-Isopropyltoluene	ND		1.0		ug/L			08/29/12 14:19	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Client Sample ID: IDW-WATER

Lab Sample ID: 580-34631-19

Date Collected: 08/24/12 13:00

Matrix: Water

Date Received: 08/25/12 09:20

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			08/29/12 14:19	1
n-Butylbenzene	ND		1.0		ug/L			08/29/12 14:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/29/12 14:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/29/12 14:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/29/12 14:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/29/12 14:19	1
Hexachlorobutadiene	ND		1.0		ug/L			08/29/12 14:19	1
<b>Naphthalene</b>	<b>48</b>		1.0		ug/L			08/29/12 14:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			08/29/12 14:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Fluorobenzene (Surr)	103		80 - 120					08/29/12 14:19	1
Toluene-d8 (Surr)	96		85 - 120					08/29/12 14:19	1
Ethylbenzene-d10	96		80 - 120					08/29/12 14:19	1
4-Bromofluorobenzene (Surr)	96		75 - 120					08/29/12 14:19	1
Trifluorotoluene (Surr)	103		80 - 120					08/29/12 14:19	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>1.1</b>		0.050		mg/L			08/29/12 07:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	90		50 - 150					08/29/12 07:27	1
Trifluorotoluene (Surr)	98		50 - 150					08/29/12 07:27	1

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>1.3</b>	<b>Y</b>	0.12		mg/L		08/29/12 10:28	08/31/12 10:47	1
Motor Oil (>C24-C36)	ND		0.24		mg/L		08/29/12 10:28	08/31/12 10:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	82		50 - 150				08/29/12 10:28	08/31/12 10:47	1

### Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		08/30/12 15:53	08/31/12 11:31	1
<b>Barium</b>	<b>0.069</b>		0.010		mg/L		08/30/12 15:53	08/31/12 11:31	1
Cadmium	ND		0.010		mg/L		08/30/12 15:53	08/31/12 11:31	1
<b>Chromium</b>	<b>0.060</b>		0.025		mg/L		08/30/12 15:53	08/31/12 11:31	1
Lead	ND		0.030		mg/L		08/30/12 15:53	08/31/12 11:31	1
Selenium	ND		0.10		mg/L		08/30/12 15:53	08/31/12 11:31	1
Silver	ND		0.020		mg/L		08/30/12 15:53	08/31/12 11:31	1
Nickel	ND		0.020		mg/L		08/30/12 15:53	08/31/12 11:31	1
Copper	ND		0.020		mg/L		08/30/12 15:53	08/31/12 11:31	1
Zinc	ND		0.040		mg/L		08/30/12 15:53	08/31/12 11:31	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/30/12 09:50	08/30/12 12:29	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-118780/5**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0		ug/L			08/29/12 09:27	1
Chloromethane	ND		5.0		ug/L			08/29/12 09:27	1
Vinyl chloride	ND		1.0		ug/L			08/29/12 09:27	1
Bromomethane	ND		5.0		ug/L			08/29/12 09:27	1
Chloroethane	ND		5.0		ug/L			08/29/12 09:27	1
Trichlorofluoromethane	ND		1.0		ug/L			08/29/12 09:27	1
1,1-Dichloroethene	ND		1.0		ug/L			08/29/12 09:27	1
Methylene Chloride	ND		3.0		ug/L			08/29/12 09:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/29/12 09:27	1
1,1-Dichloroethane	ND		1.0		ug/L			08/29/12 09:27	1
2,2-Dichloropropane	ND		1.0		ug/L			08/29/12 09:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/29/12 09:27	1
Chlorobromomethane	ND		1.0		ug/L			08/29/12 09:27	1
Chloroform	ND		1.0		ug/L			08/29/12 09:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/29/12 09:27	1
Carbon tetrachloride	ND		1.0		ug/L			08/29/12 09:27	1
1,1-Dichloropropene	ND		1.0		ug/L			08/29/12 09:27	1
Benzene	ND		1.0		ug/L			08/29/12 09:27	1
1,2-Dichloroethane	ND		1.0		ug/L			08/29/12 09:27	1
Trichloroethene	ND		1.0		ug/L			08/29/12 09:27	1
1,2-Dichloropropane	ND		1.0		ug/L			08/29/12 09:27	1
Dibromomethane	ND		1.0		ug/L			08/29/12 09:27	1
Dichlorobromomethane	ND		1.0		ug/L			08/29/12 09:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/29/12 09:27	1
Toluene	ND		1.0		ug/L			08/29/12 09:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/29/12 09:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/29/12 09:27	1
Tetrachloroethene	ND		1.0		ug/L			08/29/12 09:27	1
1,3-Dichloropropane	ND		1.0		ug/L			08/29/12 09:27	1
Chlorodibromomethane	ND		1.0		ug/L			08/29/12 09:27	1
Ethylene Dibromide	ND		1.0		ug/L			08/29/12 09:27	1
Chlorobenzene	ND		1.0		ug/L			08/29/12 09:27	1
Ethylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/29/12 09:27	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/29/12 09:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			08/29/12 09:27	1
o-Xylene	ND		1.0		ug/L			08/29/12 09:27	1
Styrene	ND		1.0		ug/L			08/29/12 09:27	1
Bromoform	ND		1.0		ug/L			08/29/12 09:27	1
Isopropylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
Bromobenzene	ND		1.0		ug/L			08/29/12 09:27	1
N-Propylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			08/29/12 09:27	1
2-Chlorotoluene	ND		1.0		ug/L			08/29/12 09:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
4-Chlorotoluene	ND		1.0		ug/L			08/29/12 09:27	1
tert-Butylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
sec-Butylbenzene	ND		1.0		ug/L			08/29/12 09:27	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-118780/5**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			08/29/12 09:27	1
4-Isopropyltoluene	ND		1.0		ug/L			08/29/12 09:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/29/12 09:27	1
n-Butylbenzene	ND		1.0		ug/L			08/29/12 09:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/29/12 09:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/29/12 09:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			08/29/12 09:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			08/29/12 09:27	1
Hexachlorobutadiene	ND		1.0		ug/L			08/29/12 09:27	1
Naphthalene	ND		1.0		ug/L			08/29/12 09:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			08/29/12 09:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	101		80 - 120		08/29/12 09:27	1
Toluene-d8 (Surr)	95		85 - 120		08/29/12 09:27	1
Ethylbenzene-d10	95		80 - 120		08/29/12 09:27	1
4-Bromofluorobenzene (Surr)	97		75 - 120		08/29/12 09:27	1
Trifluorotoluene (Surr)	103		80 - 120		08/29/12 09:27	1

**Lab Sample ID: LCS 580-118780/6**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.1	24.0		ug/L		119	30 - 155
Chloromethane	20.0	22.8		ug/L		114	40 - 125
Vinyl chloride	20.1	21.9		ug/L		109	50 - 145
Bromomethane	20.0	22.3		ug/L		111	30 - 145
Chloroethane	20.1	21.4		ug/L		106	60 - 135
Trichlorofluoromethane	20.1	22.7		ug/L		113	60 - 145
1,1-Dichloroethene	20.1	21.6		ug/L		108	70 - 130
Methylene Chloride	20.1	19.8		ug/L		99	55 - 140
trans-1,2-Dichloroethene	20.1	21.8		ug/L		108	60 - 140
1,1-Dichloroethane	20.1	21.5		ug/L		107	70 - 135
2,2-Dichloropropane	20.0	20.9		ug/L		104	70 - 135
cis-1,2-Dichloroethene	20.1	21.0		ug/L		105	70 - 125
Chlorobromomethane	20.1	20.4		ug/L		101	65 - 130
Chloroform	20.1	20.8		ug/L		104	65 - 135
1,1,1-Trichloroethane	20.1	22.1		ug/L		110	65 - 130
Carbon tetrachloride	20.1	22.6		ug/L		112	65 - 140
1,1-Dichloropropene	20.1	21.5		ug/L		107	75 - 130
Benzene	20.0	21.5		ug/L		107	80 - 120
1,2-Dichloroethane	20.1	20.7		ug/L		103	70 - 130
Trichloroethene	20.3	21.5		ug/L		106	70 - 125
1,2-Dichloropropane	20.1	21.5		ug/L		107	75 - 125
Dibromomethane	20.1	21.1		ug/L		105	75 - 125
Dichlorobromomethane	20.3	22.2		ug/L		110	75 - 120
cis-1,3-Dichloropropene	19.8	21.3		ug/L		107	70 - 130
Toluene	20.1	21.7		ug/L		108	75 - 120

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-118780/6**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	20.4	22.3		ug/L		110	55 - 140
1,1,2-Trichloroethane	20.1	21.1		ug/L		105	75 - 125
Tetrachloroethene	20.0	19.4		ug/L		97	45 - 150
1,3-Dichloropropane	20.1	21.6		ug/L		107	75 - 125
Chlorodibromomethane	20.3	23.1		ug/L		114	60 - 135
Ethylene Dibromide	20.1	21.5		ug/L		107	80 - 120
Chlorobenzene	20.0	19.0		ug/L		95	80 - 120
Ethylbenzene	20.0	20.3		ug/L		101	75 - 125
1,1,1,2-Tetrachloroethane	20.1	20.0		ug/L		100	80 - 130
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	65 - 130
m-Xylene & p-Xylene	40.2	42.6		ug/L		106	75 - 130
o-Xylene	20.1	20.6		ug/L		103	80 - 120
Styrene	20.1	20.7		ug/L		103	65 - 135
Bromoform	20.1	21.5		ug/L		107	70 - 130
Isopropylbenzene	20.1	21.0		ug/L		104	75 - 125
Bromobenzene	20.1	20.0		ug/L		99	75 - 125
N-Propylbenzene	20.0	21.6		ug/L		108	70 - 130
1,2,3-Trichloropropane	20.1	18.9		ug/L		94	75 - 125
2-Chlorotoluene	20.1	20.6		ug/L		103	75 - 125
1,3,5-Trimethylbenzene	20.0	21.0		ug/L		105	75 - 130
4-Chlorotoluene	20.1	20.7		ug/L		103	75 - 130
tert-Butylbenzene	20.1	21.0		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	20.0	20.9		ug/L		104	75 - 130
sec-Butylbenzene	20.1	21.0		ug/L		105	70 - 125
1,3-Dichlorobenzene	20.1	19.8		ug/L		99	75 - 125
4-Isopropyltoluene	20.1	21.1		ug/L		105	75 - 130
1,4-Dichlorobenzene	20.1	19.5		ug/L		97	75 - 125
n-Butylbenzene	20.1	20.4		ug/L		102	70 - 135
1,2-Dichlorobenzene	20.1	19.3		ug/L		96	70 - 120
1,2-Dibromo-3-Chloropropane	20.1	20.3		ug/L		101	50 - 130
1,2,4-Trichlorobenzene	20.1	19.6		ug/L		97	65 - 135
1,2,3-Trichlorobenzene	20.1	19.1		ug/L		95	55 - 140
Hexachlorobutadiene	20.1	19.4		ug/L		96	50 - 140
Naphthalene	20.1	19.3		ug/L		96	55 - 140
Methyl tert-butyl ether	20.1	20.3		ug/L		101	65 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Fluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	102		85 - 120
Ethylbenzene-d10	103		80 - 120
4-Bromofluorobenzene (Surr)	101		75 - 120
Trifluorotoluene (Surr)	106		80 - 120

**Lab Sample ID: LCSD 580-118780/7**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Dichlorodifluoromethane	20.1	23.9		ug/L		119	30 - 155	1	30

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-118780/7**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Chloromethane	20.0	22.0		ug/L		110	40 - 125	3	30
Vinyl chloride	20.1	22.4		ug/L		112	50 - 145	2	30
Bromomethane	20.0	20.8		ug/L		104	30 - 145	7	30
Chloroethane	20.1	21.3		ug/L		106	60 - 135	0	30
Trichlorofluoromethane	20.1	23.2		ug/L		116	60 - 145	2	30
1,1-Dichloroethene	20.1	23.6		ug/L		118	70 - 130	9	30
Methylene Chloride	20.1	21.6		ug/L		108	55 - 140	9	30
trans-1,2-Dichloroethene	20.1	23.4		ug/L		117	60 - 140	7	30
1,1-Dichloroethane	20.1	23.4		ug/L		117	70 - 135	9	30
2,2-Dichloropropane	20.0	22.7		ug/L		114	70 - 135	9	30
cis-1,2-Dichloroethene	20.1	22.6		ug/L		113	70 - 125	7	30
Chlorobromomethane	20.1	21.6		ug/L		107	65 - 130	6	30
Chloroform	20.1	22.1		ug/L		110	65 - 135	6	30
1,1,1-Trichloroethane	20.1	23.5		ug/L		117	65 - 130	6	30
Carbon tetrachloride	20.1	23.6		ug/L		117	65 - 140	4	30
1,1-Dichloropropene	20.1	22.5		ug/L		112	75 - 130	5	30
Benzene	20.0	22.2		ug/L		111	80 - 120	3	30
1,2-Dichloroethane	20.1	21.5		ug/L		107	70 - 130	3	30
Trichloroethene	20.3	21.7		ug/L		107	70 - 125	1	30
1,2-Dichloropropane	20.1	21.7		ug/L		108	75 - 125	1	30
Dibromomethane	20.1	21.1		ug/L		105	75 - 125	0	30
Dichlorobromomethane	20.3	22.8		ug/L		112	75 - 120	3	30
cis-1,3-Dichloropropene	19.8	21.5		ug/L		108	70 - 130	1	30
Toluene	20.1	22.2		ug/L		111	75 - 120	2	30
trans-1,3-Dichloropropene	20.4	23.8		ug/L		117	55 - 140	6	30
1,1,2-Trichloroethane	20.1	22.1		ug/L		110	75 - 125	5	30
Tetrachloroethene	20.0	20.5		ug/L		102	45 - 150	5	30
1,3-Dichloropropane	20.1	22.2		ug/L		111	75 - 125	3	30
Chlorodibromomethane	20.3	24.4		ug/L		120	60 - 135	5	30
Ethylene Dibromide	20.1	22.7		ug/L		113	80 - 120	5	30
Chlorobenzene	20.0	19.7		ug/L		98	80 - 120	4	30
Ethylbenzene	20.0	21.4		ug/L		107	75 - 125	5	30
1,1,1,2-Tetrachloroethane	20.1	21.4		ug/L		106	80 - 130	6	30
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	65 - 130	5	30
m-Xylene & p-Xylene	40.2	44.4		ug/L		110	75 - 130	4	30
o-Xylene	20.1	21.5		ug/L		107	80 - 120	4	30
Styrene	20.1	21.4		ug/L		107	65 - 135	4	30
Bromoform	20.1	22.8		ug/L		113	70 - 130	6	30
Isopropylbenzene	20.1	22.0		ug/L		109	75 - 125	5	30
Bromobenzene	20.1	20.8		ug/L		104	75 - 125	4	30
N-Propylbenzene	20.0	22.5		ug/L		112	70 - 130	4	30
1,2,3-Trichloropropane	20.1	20.2		ug/L		101	75 - 125	7	30
2-Chlorotoluene	20.1	21.6		ug/L		108	75 - 125	5	30
1,3,5-Trimethylbenzene	20.0	22.0		ug/L		110	75 - 130	5	30
4-Chlorotoluene	20.1	21.1		ug/L		105	75 - 130	2	30
tert-Butylbenzene	20.1	22.3		ug/L		111	70 - 130	6	30
1,2,4-Trimethylbenzene	20.0	21.8		ug/L		109	75 - 130	5	30
sec-Butylbenzene	20.1	22.0		ug/L		110	70 - 125	5	30
1,3-Dichlorobenzene	20.1	20.2		ug/L		101	75 - 125	2	30
4-Isopropyltoluene	20.1	22.0		ug/L		109	75 - 130	4	30

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-118780/7**

**Matrix: Water**

**Analysis Batch: 118780**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.1	19.9		ug/L		99	75 - 125	2	30
n-Butylbenzene	20.1	21.0		ug/L		104	70 - 135	3	30
1,2-Dichlorobenzene	20.1	19.7		ug/L		98	70 - 120	2	30
1,2-Dibromo-3-Chloropropane	20.1	20.3		ug/L		101	50 - 130	0	30
1,2,4-Trichlorobenzene	20.1	20.4		ug/L		102	65 - 135	4	30
1,2,3-Trichlorobenzene	20.1	19.6		ug/L		98	55 - 140	3	30
Hexachlorobutadiene	20.1	21.2		ug/L		106	50 - 140	9	30
Naphthalene	20.1	19.8		ug/L		99	55 - 140	3	30
Methyl tert-butyl ether	20.1	22.0		ug/L		109	65 - 125	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Fluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	102		85 - 120
Ethylbenzene-d10	106		80 - 120
4-Bromofluorobenzene (Surr)	107		75 - 120
Trifluorotoluene (Surr)	108		80 - 120

**Lab Sample ID: MB 580-119433/1-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Chloromethane	ND		400		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Vinyl chloride	ND		8.0		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Bromomethane	ND		140		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Chloroethane	ND		400		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Trichlorofluoromethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1-Dichloroethene	ND		20		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Methylene Chloride	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
trans-1,2-Dichloroethene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1-Dichloroethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
2,2-Dichloropropane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
cis-1,2-Dichloroethene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Chlorobromomethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Chloroform	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1,1-Trichloroethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Carbon tetrachloride	ND		20		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1-Dichloropropene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Benzene	ND		16		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2-Dichloroethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Trichloroethene	ND		16		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2-Dichloropropane	ND		12		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Dibromomethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Dichlorobromomethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
cis-1,3-Dichloropropene	ND		16		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Toluene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
trans-1,3-Dichloropropene	ND		16		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1,2-Trichloroethane	ND		12		ug/Kg		09/06/12 11:06	09/06/12 20:47	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-119433/1-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	ND		20		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,3-Dichloropropane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Chlorodibromomethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Ethylene Dibromide	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Chlorobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Ethylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1,1,2-Tetrachloroethane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,1,2,2-Tetrachloroethane	ND		10		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
m-Xylene & p-Xylene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
o-Xylene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Styrene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Bromoform	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Isopropylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Bromobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
N-Propylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2,3-Trichloropropane	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
2-Chlorotoluene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
4-Chlorotoluene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
tert-Butylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
sec-Butylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,3-Dichlorobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
4-Isopropyltoluene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,4-Dichlorobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
n-Butylbenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2-Dichlorobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2-Dibromo-3-Chloropropane	ND		200		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2,4-Trichlorobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
1,2,3-Trichlorobenzene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Hexachlorobutadiene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Naphthalene	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1
Methyl tert-butyl ether	ND		40		ug/Kg		09/06/12 11:06	09/06/12 20:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Fluorobenzene (Surr)	92		80 - 120	09/06/12 11:06	09/06/12 20:47	1
Toluene-d8 (Surr)	100		80 - 120	09/06/12 11:06	09/06/12 20:47	1
Ethylbenzene-d10	102		70 - 120	09/06/12 11:06	09/06/12 20:47	1
4-Bromofluorobenzene (Surr)	102		70 - 120	09/06/12 11:06	09/06/12 20:47	1
Trifluorotoluene (Surr)	104		65 - 140	09/06/12 11:06	09/06/12 20:47	1

**Lab Sample ID: LCS 580-119433/2-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Dichlorodifluoromethane	795	645		ug/Kg		81	35 - 135
Chloromethane	799	656		ug/Kg		82	50 - 130
Vinyl chloride	801	893		ug/Kg		112	60 - 125

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-119433/2-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	800	702		ug/Kg		88	30 - 160
Chloroethane	798	868		ug/Kg		109	40 - 155
Trichlorofluoromethane	792	955		ug/Kg		120	25 - 185
1,1-Dichloroethene	792	754		ug/Kg		95	65 - 135
Methylene Chloride	800	803		ug/Kg		100	55 - 140
trans-1,2-Dichloroethene	801	861		ug/Kg		108	65 - 135
1,1-Dichloroethane	792	908		ug/Kg		115	75 - 125
2,2-Dichloropropane	801	732		ug/Kg		91	65 - 135
cis-1,2-Dichloroethene	800	798		ug/Kg		100	65 - 125
Chlorobromomethane	794	851		ug/Kg		107	70 - 125
Chloroform	800	879		ug/Kg		110	70 - 125
1,1,1-Trichloroethane	800	742		ug/Kg		93	70 - 135
Carbon tetrachloride	801	867		ug/Kg		108	65 - 135
1,1-Dichloropropene	793	816		ug/Kg		103	70 - 135
Benzene	796	776		ug/Kg		97	75 - 125
1,2-Dichloroethane	793	782		ug/Kg		99	70 - 135
Trichloroethene	800	850		ug/Kg		106	75 - 125
1,2-Dichloropropane	800	880		ug/Kg		110	70 - 120
Dibromomethane	789	843		ug/Kg		107	75 - 130
Dichlorobromomethane	790	705		ug/Kg		89	70 - 130
cis-1,3-Dichloropropene	840	686		ug/Kg		82	70 - 125
Toluene	800	734		ug/Kg		92	70 - 125
trans-1,3-Dichloropropene	760	593		ug/Kg		78	65 - 125
1,1,2-Trichloroethane	790	713		ug/Kg		90	60 - 125
Tetrachloroethene	801	707		ug/Kg		88	65 - 140
1,3-Dichloropropane	800	683		ug/Kg		85	75 - 125
Chlorodibromomethane	793	617		ug/Kg		78	65 - 130
Ethylene Dibromide	800	713		ug/Kg		89	70 - 125
Chlorobenzene	800	804		ug/Kg		100	75 - 125
Ethylbenzene	794	809		ug/Kg		102	75 - 125
1,1,1,2-Tetrachloroethane	789	902		ug/Kg		114	75 - 125
1,1,2,2-Tetrachloroethane	800	725		ug/Kg		91	55 - 130
m-Xylene & p-Xylene	1600	1700		ug/Kg		106	80 - 125
o-Xylene	792	821		ug/Kg		104	75 - 125
Styrene	798	852		ug/Kg		107	75 - 125
Bromoform	797	819		ug/Kg		103	55 - 135
Isopropylbenzene	800	809		ug/Kg		101	75 - 130
Bromobenzene	796	809		ug/Kg		102	65 - 120
N-Propylbenzene	800	767		ug/Kg		96	65 - 135
1,2,3-Trichloropropane	788	693		ug/Kg		88	65 - 130
2-Chlorotoluene	792	910		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	800	907		ug/Kg		113	65 - 135
4-Chlorotoluene	788	826		ug/Kg		105	75 - 125
tert-Butylbenzene	797	859		ug/Kg		108	65 - 130
1,2,4-Trimethylbenzene	801	957		ug/Kg		119	65 - 135
sec-Butylbenzene	800	915		ug/Kg		114	65 - 130
1,3-Dichlorobenzene	798	795		ug/Kg		100	70 - 125
4-Isopropyltoluene	800	855		ug/Kg		107	75 - 135
1,4-Dichlorobenzene	799	815		ug/Kg		102	70 - 125
n-Butylbenzene	792	858		ug/Kg		108	65 - 140

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-119433/2-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	786	811		ug/Kg		103	75 - 120
1,2-Dibromo-3-Chloropropane	800	586		ug/Kg		73	40 - 135
1,2,4-Trichlorobenzene	795	937		ug/Kg		118	65 - 130
1,2,3-Trichlorobenzene	800	908		ug/Kg		113	60 - 135
Hexachlorobutadiene	800	839		ug/Kg		105	55 - 140
Naphthalene	800	717		ug/Kg		90	40 - 125
Methyl tert-butyl ether	800	787		ug/Kg		98	65 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Fluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	96		80 - 120
Ethylbenzene-d10	105		70 - 120
4-Bromofluorobenzene (Surr)	116		70 - 120
Trifluorotoluene (Surr)	96		65 - 140

**Lab Sample ID: LCSD 580-119433/3-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	795	628		ug/Kg		79	35 - 135	3	30
Chloromethane	799	617		ug/Kg		77	50 - 130	6	30
Vinyl chloride	801	867		ug/Kg		108	60 - 125	3	30
Bromomethane	800	621		ug/Kg		78	30 - 160	12	30
Chloroethane	798	772		ug/Kg		97	40 - 155	12	30
Trichlorofluoromethane	792	879		ug/Kg		111	25 - 185	8	30
1,1-Dichloroethene	792	747		ug/Kg		94	65 - 135	1	30
Methylene Chloride	800	767		ug/Kg		96	55 - 140	5	30
trans-1,2-Dichloroethene	801	848		ug/Kg		106	65 - 135	2	30
1,1-Dichloroethane	792	911		ug/Kg		115	75 - 125	0	30
2,2-Dichloropropane	801	651		ug/Kg		81	65 - 135	12	30
cis-1,2-Dichloroethene	800	775		ug/Kg		97	65 - 125	3	30
Chlorobromomethane	794	838		ug/Kg		106	70 - 125	2	30
Chloroform	800	845		ug/Kg		106	70 - 125	4	30
1,1,1-Trichloroethane	800	708		ug/Kg		88	70 - 135	5	30
Carbon tetrachloride	801	814		ug/Kg		102	65 - 135	6	30
1,1-Dichloropropene	793	815		ug/Kg		103	70 - 135	0	30
Benzene	796	755		ug/Kg		95	75 - 125	3	30
1,2-Dichloroethane	793	778		ug/Kg		98	70 - 135	1	30
Trichloroethene	800	801		ug/Kg		100	75 - 125	6	30
1,2-Dichloropropane	800	854		ug/Kg		107	70 - 120	3	30
Dibromomethane	789	800		ug/Kg		101	75 - 130	5	30
Dichlorobromomethane	790	686		ug/Kg		87	70 - 130	3	30
cis-1,3-Dichloropropene	840	693		ug/Kg		82	70 - 125	1	30
Toluene	800	739		ug/Kg		92	70 - 125	1	30
trans-1,3-Dichloropropene	760	607		ug/Kg		80	65 - 125	2	30
1,1,2-Trichloroethane	790	747		ug/Kg		95	60 - 125	5	30
Tetrachloroethene	801	737		ug/Kg		92	65 - 140	4	30
1,3-Dichloropropane	800	706		ug/Kg		88	75 - 125	3	30

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-119433/3-A**

**Matrix: Solid**

**Analysis Batch: 119464**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 119433**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorodibromomethane	793	614		ug/Kg		77	65 - 130	1	30
Ethylene Dibromide	800	744		ug/Kg		93	70 - 125	4	30
Chlorobenzene	800	833		ug/Kg		104	75 - 125	4	30
Ethylbenzene	794	819		ug/Kg		103	75 - 125	1	30
1,1,1,2-Tetrachloroethane	789	867		ug/Kg		110	75 - 125	4	30
1,1,2,2-Tetrachloroethane	800	787		ug/Kg		98	55 - 130	8	30
m-Xylene & p-Xylene	1600	1750		ug/Kg		109	80 - 125	3	30
o-Xylene	792	830		ug/Kg		105	75 - 125	1	30
Styrene	798	864		ug/Kg		108	75 - 125	1	30
Bromoform	797	841		ug/Kg		105	55 - 135	3	30
Isopropylbenzene	800	810		ug/Kg		101	75 - 130	0	30
Bromobenzene	796	812		ug/Kg		102	65 - 120	0	30
N-Propylbenzene	800	784		ug/Kg		98	65 - 135	2	30
1,2,3-Trichloropropane	788	712		ug/Kg		90	65 - 130	3	30
2-Chlorotoluene	792	854		ug/Kg		108	70 - 130	6	30
1,3,5-Trimethylbenzene	800	856		ug/Kg		107	65 - 135	6	30
4-Chlorotoluene	788	796		ug/Kg		101	75 - 125	4	30
tert-Butylbenzene	797	840		ug/Kg		105	65 - 130	2	30
1,2,4-Trimethylbenzene	801	845		ug/Kg		106	65 - 135	12	30
sec-Butylbenzene	800	837		ug/Kg		105	65 - 130	9	30
1,3-Dichlorobenzene	798	798		ug/Kg		100	70 - 125	0	30
4-Isopropyltoluene	800	843		ug/Kg		105	75 - 135	1	30
1,4-Dichlorobenzene	799	771		ug/Kg		96	70 - 125	6	30
n-Butylbenzene	792	900		ug/Kg		114	65 - 140	5	30
1,2-Dichlorobenzene	786	793		ug/Kg		101	75 - 120	2	30
1,2-Dibromo-3-Chloropropane	800	596		ug/Kg		74	40 - 135	2	30
1,2,4-Trichlorobenzene	795	864		ug/Kg		109	65 - 130	8	30
1,2,3-Trichlorobenzene	800	911		ug/Kg		114	60 - 135	0	30
Hexachlorobutadiene	800	830		ug/Kg		104	55 - 140	1	30
Naphthalene	800	714		ug/Kg		89	40 - 125	0	30
Methyl tert-butyl ether	800	810		ug/Kg		101	65 - 125	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Fluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	99		80 - 120
Ethylbenzene-d10	112		70 - 120
4-Bromofluorobenzene (Surr)	109		70 - 120
Trifluorotoluene (Surr)	97		65 - 140

**Lab Sample ID: MB 580-119484/1-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Chloromethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Vinyl chloride	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Bromomethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Chloroethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-119484/1-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichlorofluoromethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1-Dichloroethene	ND		5.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Methylene Chloride	ND		15		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1-Dichloroethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
2,2-Dichloropropane	ND	^	1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Chlorobromomethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Chloroform	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Carbon tetrachloride	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1-Dichloropropene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Benzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2-Dichloroethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Trichloroethene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2-Dichloropropane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Dibromomethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Dichlorobromomethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Toluene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Tetrachloroethene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,3-Dichloropropane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Chlorodibromomethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Ethylene Dibromide	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Chlorobenzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Ethylbenzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
o-Xylene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Styrene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Bromoform	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Isopropylbenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Bromobenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
N-Propylbenzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2,3-Trichloropropane	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
2-Chlorotoluene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
4-Chlorotoluene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
tert-Butylbenzene	ND	^	2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
sec-Butylbenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
4-Isopropyltoluene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
n-Butylbenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-119484/1-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Hexachlorobutadiene	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Naphthalene	ND		5.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1
Methyl tert-butyl ether	ND		1.0		ug/Kg		09/06/12 18:45	09/06/12 19:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	98		80 - 120	09/06/12 18:45	09/06/12 19:50	1
Toluene-d8 (Surr)	94		80 - 120	09/06/12 18:45	09/06/12 19:50	1
Ethylbenzene-d10	98		70 - 120	09/06/12 18:45	09/06/12 19:50	1
4-Bromofluorobenzene (Surr)	95		70 - 120	09/06/12 18:45	09/06/12 19:50	1
Trifluorotoluene (Surr)	112		65 - 140	09/06/12 18:45	09/06/12 19:50	1

**Lab Sample ID: LCS 580-119484/2-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	30.0	29.7		ug/Kg		99	35 - 135
Chloromethane	30.0	29.6		ug/Kg		99	50 - 130
Vinyl chloride	30.0	29.5		ug/Kg		99	60 - 125
Bromomethane	30.0	32.6		ug/Kg		109	30 - 160
Chloroethane	30.0	30.2		ug/Kg		101	40 - 155
Trichlorofluoromethane	30.0	31.9		ug/Kg		106	25 - 185
1,1-Dichloroethene	30.0	31.9		ug/Kg		106	65 - 135
Methylene Chloride	30.0	36.5		ug/Kg		122	55 - 140
trans-1,2-Dichloroethene	30.0	32.6		ug/Kg		109	65 - 135
1,1-Dichloroethane	30.0	33.1		ug/Kg		110	75 - 125
2,2-Dichloropropane	30.0	40.0	^	ug/Kg		134	65 - 135
cis-1,2-Dichloroethene	30.0	30.3		ug/Kg		101	65 - 125
Chlorobromomethane	30.1	32.0		ug/Kg		106	70 - 125
Chloroform	30.0	31.8		ug/Kg		106	70 - 125
1,1,1-Trichloroethane	30.0	35.7		ug/Kg		119	70 - 135
Carbon tetrachloride	30.1	36.6		ug/Kg		122	65 - 135
1,1-Dichloropropene	30.1	35.0		ug/Kg		116	70 - 135
Benzene	30.0	30.7		ug/Kg		102	75 - 125
1,2-Dichloroethane	30.0	33.6		ug/Kg		112	70 - 135
Trichloroethene	30.4	30.5		ug/Kg		100	75 - 125
1,2-Dichloropropane	30.0	31.1		ug/Kg		104	70 - 120
Dibromomethane	30.1	33.0		ug/Kg		110	75 - 130
Dichlorobromomethane	30.3	35.2		ug/Kg		116	70 - 130
cis-1,3-Dichloropropene	29.6	34.0		ug/Kg		115	70 - 125
Toluene	30.0	31.0		ug/Kg		103	70 - 125
trans-1,3-Dichloropropene	30.5	36.3		ug/Kg		119	65 - 125
1,1,2-Trichloroethane	30.1	31.6		ug/Kg		105	60 - 125
Tetrachloroethene	30.0	27.5		ug/Kg		92	65 - 140
1,3-Dichloropropane	30.0	31.9		ug/Kg		106	75 - 125
Chlorodibromomethane	30.4	35.9		ug/Kg		118	65 - 130
Ethylene Dibromide	30.1	33.2		ug/Kg		110	70 - 125

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-119484/2-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	30.0	28.4		ug/Kg		95	75 - 125
Ethylbenzene	30.0	31.2		ug/Kg		104	75 - 125
1,1,1,2-Tetrachloroethane	30.1	34.2		ug/Kg		114	75 - 125
1,1,2,2-Tetrachloroethane	30.0	31.7		ug/Kg		106	55 - 130
m-Xylene & p-Xylene	60.1	63.7		ug/Kg		106	80 - 125
o-Xylene	30.1	32.3		ug/Kg		107	75 - 125
Styrene	30.1	32.9		ug/Kg		109	75 - 125
Bromoform	30.0	33.4		ug/Kg		111	55 - 135
Isopropylbenzene	30.1	30.8		ug/Kg		102	75 - 130
Bromobenzene	30.0	31.4		ug/Kg		105	65 - 120
N-Propylbenzene	30.0	31.8		ug/Kg		106	65 - 135
1,2,3-Trichloropropane	30.1	32.0		ug/Kg		106	65 - 130
2-Chlorotoluene	30.0	33.5		ug/Kg		111	70 - 130
1,3,5-Trimethylbenzene	30.0	31.3		ug/Kg		105	65 - 135
4-Chlorotoluene	30.1	32.4		ug/Kg		108	75 - 125
tert-Butylbenzene	30.1	35.4	^	ug/Kg		118	65 - 130
1,2,4-Trimethylbenzene	30.0	31.5		ug/Kg		105	65 - 135
sec-Butylbenzene	30.0	29.2		ug/Kg		97	65 - 130
1,3-Dichlorobenzene	30.0	33.4		ug/Kg		111	70 - 125
4-Isopropyltoluene	30.0	30.5		ug/Kg		102	75 - 135
1,4-Dichlorobenzene	30.0	32.5		ug/Kg		108	70 - 125
n-Butylbenzene	30.0	29.9		ug/Kg		100	65 - 140
1,2-Dichlorobenzene	30.0	33.0		ug/Kg		110	75 - 120
1,2-Dibromo-3-Chloropropane	30.0	33.4		ug/Kg		111	40 - 135
1,2,4-Trichlorobenzene	30.1	31.0		ug/Kg		103	65 - 130
1,2,3-Trichlorobenzene	30.0	31.2		ug/Kg		104	60 - 135
Hexachlorobutadiene	30.1	31.3		ug/Kg		104	55 - 140
Naphthalene	30.0	30.8		ug/Kg		103	40 - 125
Methyl tert-butyl ether	30.0	31.5		ug/Kg		105	65 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Fluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	102		80 - 120
Ethylbenzene-d10	94		70 - 120
4-Bromofluorobenzene (Surr)	101		70 - 120
Trifluorotoluene (Surr)	103		65 - 140

**Lab Sample ID: LCSD 580-119484/15-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	30.0	31.0		ug/Kg		103	35 - 135	4	30
Chloromethane	30.0	26.7		ug/Kg		89	50 - 130	10	30
Vinyl chloride	30.0	29.9		ug/Kg		100	60 - 125	1	30
Bromomethane	30.0	29.1		ug/Kg		97	30 - 160	11	30
Chloroethane	30.0	31.6		ug/Kg		105	40 - 155	5	30
Trichlorofluoromethane	30.0	32.4		ug/Kg		108	25 - 185	2	30
1,1-Dichloroethene	30.0	33.5		ug/Kg		112	65 - 135	5	30

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-119484/15-A**

**Matrix: Solid**

**Analysis Batch: 119485**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 119484**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits	RPD	Limit
Methylene Chloride	30.0	35.7		ug/Kg		119	55 - 140	2	30
trans-1,2-Dichloroethene	30.0	33.6		ug/Kg		112	65 - 135	3	30
1,1-Dichloroethane	30.0	34.7		ug/Kg		116	75 - 125	5	30
2,2-Dichloropropane	30.0	43.3	* ^	ug/Kg		144	65 - 135	8	30
cis-1,2-Dichloroethene	30.0	31.6		ug/Kg		105	65 - 125	4	30
Chlorobromomethane	30.1	31.5		ug/Kg		105	70 - 125	2	30
Chloroform	30.0	33.0		ug/Kg		110	70 - 125	4	30
1,1,1-Trichloroethane	30.0	37.2		ug/Kg		124	70 - 135	4	30
Carbon tetrachloride	30.1	37.0		ug/Kg		123	65 - 135	1	30
1,1-Dichloropropene	30.1	37.1		ug/Kg		123	70 - 135	6	30
Benzene	30.0	31.5		ug/Kg		105	75 - 125	3	30
1,2-Dichloroethane	30.0	32.1		ug/Kg		107	70 - 135	5	30
Trichloroethene	30.4	33.2		ug/Kg		109	75 - 125	8	30
1,2-Dichloropropane	30.0	30.3		ug/Kg		101	70 - 120	3	30
Dibromomethane	30.1	31.3		ug/Kg		104	75 - 130	5	30
Dichlorobromomethane	30.3	35.5		ug/Kg		117	70 - 130	1	30
cis-1,3-Dichloropropene	29.6	33.5		ug/Kg		113	70 - 125	2	30
Toluene	30.0	32.1		ug/Kg		107	70 - 125	4	30
trans-1,3-Dichloropropene	30.5	35.1		ug/Kg		115	65 - 125	3	30
1,1,2-Trichloroethane	30.1	29.7		ug/Kg		99	60 - 125	6	30
Tetrachloroethene	30.0	29.3		ug/Kg		98	65 - 140	6	30
1,3-Dichloropropane	30.0	30.5		ug/Kg		102	75 - 125	4	30
Chlorodibromomethane	30.4	33.6		ug/Kg		111	65 - 130	7	30
Ethylene Dibromide	30.1	30.8		ug/Kg		102	70 - 125	7	30
Chlorobenzene	30.0	30.4		ug/Kg		102	75 - 125	7	30
Ethylbenzene	30.0	35.0		ug/Kg		117	75 - 125	12	30
1,1,1,2-Tetrachloroethane	30.1	34.9		ug/Kg		116	75 - 125	2	30
1,1,2,2-Tetrachloroethane	30.0	30.7		ug/Kg		102	55 - 130	3	30
m-Xylene & p-Xylene	60.1	70.1		ug/Kg		117	80 - 125	10	30
o-Xylene	30.1	34.7		ug/Kg		115	75 - 125	7	30
Styrene	30.1	34.6		ug/Kg		115	75 - 125	5	30
Bromoform	30.0	31.9		ug/Kg		106	55 - 135	4	30
Isopropylbenzene	30.1	33.7		ug/Kg		112	75 - 130	9	30
Bromobenzene	30.0	32.7		ug/Kg		109	65 - 120	4	30
N-Propylbenzene	30.0	33.7		ug/Kg		112	65 - 135	6	30
1,2,3-Trichloropropane	30.1	30.6		ug/Kg		102	65 - 130	4	30
2-Chlorotoluene	30.0	34.7		ug/Kg		115	70 - 130	4	30
1,3,5-Trimethylbenzene	30.0	33.7		ug/Kg		112	65 - 135	7	30
4-Chlorotoluene	30.1	34.9		ug/Kg		116	75 - 125	8	30
tert-Butylbenzene	30.1	32.9	^	ug/Kg		110	65 - 130	7	30
1,2,4-Trimethylbenzene	30.0	33.4		ug/Kg		111	65 - 135	6	30
sec-Butylbenzene	30.0	31.0		ug/Kg		103	65 - 130	6	30
1,3-Dichlorobenzene	30.0	34.2		ug/Kg		114	70 - 125	3	30
4-Isopropyltoluene	30.0	31.9		ug/Kg		106	75 - 135	4	30
1,4-Dichlorobenzene	30.0	33.2		ug/Kg		110	70 - 125	2	30
n-Butylbenzene	30.0	32.3		ug/Kg		108	65 - 140	7	30
1,2-Dichlorobenzene	30.0	33.1		ug/Kg		110	75 - 120	0	30
1,2-Dibromo-3-Chloropropane	30.0	30.0		ug/Kg		100	40 - 135	11	30
1,2,4-Trichlorobenzene	30.1	30.0		ug/Kg		100	65 - 130	3	30
1,2,3-Trichlorobenzene	30.0	28.6		ug/Kg		95	60 - 135	9	30

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-119484/15-A

Matrix: Solid

Analysis Batch: 119485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119484

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene	30.1	32.6		ug/Kg		108	55 - 140	4	30
Naphthalene	30.0	27.7		ug/Kg		92	40 - 125	11	30
Methyl tert-butyl ether	30.0	29.3		ug/Kg		98	65 - 125	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Fluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Ethylbenzene-d10	99		70 - 120
4-Bromofluorobenzene (Surr)	103		70 - 120
Trifluorotoluene (Surr)	120		65 - 140

## Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Lab Sample ID: MB 580-119433/1-A

Matrix: Solid

Analysis Batch: 119580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Chloromethane - RA	ND		400		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Vinyl chloride - RA	ND		8.0		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Bromomethane - RA	ND		140		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Chloroethane - RA	ND		400		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Trichlorofluoromethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1-Dichloroethene - RA	ND		20		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Methylene Chloride - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
trans-1,2-Dichloroethene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1-Dichloroethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
2,2-Dichloropropane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
cis-1,2-Dichloroethene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Chlorobromomethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Chloroform - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1,1-Trichloroethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Carbon tetrachloride - RA	ND		20		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1-Dichloropropene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Benzene - RA	ND		16		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2-Dichloroethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Trichloroethene - RA	ND		16		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2-Dichloropropane - RA	ND		12		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Dibromomethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Dichlorobromomethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
cis-1,3-Dichloropropene - RA	ND		16		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Toluene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
trans-1,3-Dichloropropene - RA	ND		16		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1,2-Trichloroethane - RA	ND		12		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Tetrachloroethene - RA	ND		20		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,3-Dichloropropane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Chlorodibromomethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Ethylene Dibromide - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Lab Sample ID: MB 580-119433/1-A

Matrix: Solid

Analysis Batch: 119580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Ethylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1,1,2-Tetrachloroethane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,1,2,2-Tetrachloroethane - RA	ND		10		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
m-Xylene & p-Xylene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
o-Xylene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Styrene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Bromoform - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Isopropylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Bromobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
N-Propylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2,3-Trichloropropane - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
2-Chlorotoluene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,3,5-Trimethylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
4-Chlorotoluene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
tert-Butylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2,4-Trimethylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
sec-Butylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,3-Dichlorobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
4-Isopropyltoluene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,4-Dichlorobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
n-Butylbenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2-Dichlorobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2-Dibromo-3-Chloropropane - RA	ND		200		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2,4-Trichlorobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
1,2,3-Trichlorobenzene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Hexachlorobutadiene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Naphthalene - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1
Methyl tert-butyl ether - RA	ND		40		ug/Kg		09/06/12 11:06	09/08/12 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr) - RA	98		80 - 120	09/06/12 11:06	09/08/12 11:01	1
Toluene-d8 (Surr) - RA	99		80 - 120	09/06/12 11:06	09/08/12 11:01	1
Ethylbenzene-d10 - RA	97		70 - 120	09/06/12 11:06	09/08/12 11:01	1
4-Bromofluorobenzene (Surr) - RA	93		70 - 120	09/06/12 11:06	09/08/12 11:01	1
Trifluorotoluene (Surr) - RA	104		65 - 140	09/06/12 11:06	09/08/12 11:01	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-118623/1-A

Matrix: Solid

Analysis Batch: 118637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/27/12 13:17	08/28/12 13:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150	08/27/12 13:17	08/28/12 13:06	1
Trifluorotoluene (Surr)	105		50 - 150	08/27/12 13:17	08/28/12 13:06	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 580-118623/1-A**  
**Matrix: Solid**  
**Analysis Batch: 118876**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 118623**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/27/12 13:17	08/30/12 09:32	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		50 - 150				08/27/12 13:17	08/30/12 09:32	1
Trifluorotoluene (Surr)	109		50 - 150				08/27/12 13:17	08/30/12 09:32	1

**Lab Sample ID: MB 580-118623/1-A**  
**Matrix: Solid**  
**Analysis Batch: 119128**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 118623**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/27/12 13:17	08/31/12 19:55	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		50 - 150				08/27/12 13:17	08/31/12 19:55	1
Trifluorotoluene (Surr)	104		50 - 150				08/27/12 13:17	08/31/12 19:55	1

**Lab Sample ID: LCS 580-118623/2-A**  
**Matrix: Solid**  
**Analysis Batch: 118637**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 118623**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	39.1		mg/Kg		98	68 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		50 - 150				
Trifluorotoluene (Surr)	99		50 - 150				

**Lab Sample ID: LCSD 580-118623/3-A**  
**Matrix: Solid**  
**Analysis Batch: 118637**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 118623**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.0	36.6		mg/Kg		92	68 - 120	6	25
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		50 - 150						
Trifluorotoluene (Surr)	97		50 - 150						

**Lab Sample ID: MB 580-118696/1-A**  
**Matrix: Solid**  
**Analysis Batch: 118718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 118696**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/28/12 10:54	08/28/12 14:22	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		50 - 150				08/28/12 10:54	08/28/12 14:22	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 580-118696/1-A**

**Matrix: Solid**

**Analysis Batch: 118718**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118696**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Trifluorotoluene (Surr)	113		50 - 150	08/28/12 10:54	08/28/12 14:22	1

**Lab Sample ID: LCS 580-118696/2-A**

**Matrix: Solid**

**Analysis Batch: 118718**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118696**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	118		50 - 150
Trifluorotoluene (Surr)	110		50 - 150

**Lab Sample ID: LCSD 580-118696/3-A**

**Matrix: Solid**

**Analysis Batch: 118718**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118696**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	119		50 - 150
Trifluorotoluene (Surr)	106		50 - 150

**Lab Sample ID: MB 580-118763/5**

**Matrix: Water**

**Analysis Batch: 118763**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	94		50 - 150		08/28/12 23:00	1
Trifluorotoluene (Surr)	99		50 - 150		08/28/12 23:00	1

**Lab Sample ID: LCS 580-118763/6**

**Matrix: Water**

**Analysis Batch: 118763**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		50 - 150
Trifluorotoluene (Surr)	90		50 - 150

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 580-118763/7**

**Matrix: Water**

**Analysis Batch: 118763**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	1.00	0.817		mg/L		82	79 - 110	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	96		50 - 150						
Trifluorotoluene (Surr)	87		50 - 150						

**Lab Sample ID: MB 580-118863/1-A**

**Matrix: Solid**

**Analysis Batch: 118883**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118863**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		08/29/12 13:48	08/29/12 17:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	90		50 - 150				08/29/12 13:48	08/29/12 17:42	1
Trifluorotoluene (Surr)	101		50 - 150				08/29/12 13:48	08/29/12 17:42	1

**Lab Sample ID: LCS 580-118863/2-A**

**Matrix: Solid**

**Analysis Batch: 118883**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118863**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.0	31.4		mg/Kg		78	68 - 120		
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	92		50 - 150						
Trifluorotoluene (Surr)	94		50 - 150						

**Lab Sample ID: LCSD 580-118863/3-A**

**Matrix: Solid**

**Analysis Batch: 118883**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118863**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.0	32.2		mg/Kg		81	68 - 120	3	25
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	93		50 - 150						
Trifluorotoluene (Surr)	91		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-118826/1-A**

**Matrix: Water**

**Analysis Batch: 118988**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118826**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.13		mg/L		08/29/12 10:27	08/31/12 03:10	1
Motor Oil (>C24-C36)	ND		0.25		mg/L		08/29/12 10:27	08/31/12 03:10	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 580-118826/1-A**

**Matrix: Water**

**Analysis Batch: 118988**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118826**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	89		50 - 150	08/29/12 10:27	08/31/12 03:10	1

**Lab Sample ID: LCS 580-118826/2-A**

**Matrix: Water**

**Analysis Batch: 118988**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118826**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
#2 Diesel (C10-C24)	5.00	4.51		mg/L		90	70 - 140	
Motor Oil (>C24-C36)	5.00	5.13		mg/L		103	66 - 125	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	99		50 - 150

**Lab Sample ID: LCSD 580-118826/3-A**

**Matrix: Water**

**Analysis Batch: 118988**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 118826**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	
#2 Diesel (C10-C24)	5.00	4.45		mg/L		89	70 - 140	1	27	
Motor Oil (>C24-C36)	5.00	5.02		mg/L		100	66 - 125	2	27	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	98		50 - 150

**Lab Sample ID: MB 580-118958/1-A**

**Matrix: Solid**

**Analysis Batch: 118988**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 118958**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		25		mg/Kg		08/30/12 11:26	08/30/12 18:06	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		08/30/12 11:26	08/30/12 18:06	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	90		50 - 150	08/30/12 11:26	08/30/12 18:06	1

**Lab Sample ID: LCS 580-118958/2-A**

**Matrix: Solid**

**Analysis Batch: 118988**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 118958**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
#2 Diesel (C10-C24)	500	519		mg/Kg		104	70 - 125	
Motor Oil (>C24-C36)	500	558		mg/Kg		112	64 - 127	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	110		50 - 150

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 580-119380/1-A**

**Matrix: Solid**

**Analysis Batch: 119405**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg		09/05/12 17:14	09/06/12 11:30	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		09/05/12 17:14	09/06/12 11:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		50 - 150				09/05/12 17:14	09/06/12 11:30	1

**Lab Sample ID: LCS 580-119380/2-A**

**Matrix: Solid**

**Analysis Batch: 119405**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	481		mg/Kg		96	70 - 125
Motor Oil (>C24-C36)	500	494		mg/Kg		99	64 - 127
Surrogate	%Recovery	Qualifier	Limits				
<i>o</i> -Terphenyl	91		50 - 150				

**Lab Sample ID: MB 580-119460/1-A**

**Matrix: Solid**

**Analysis Batch: 119406**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 119460**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg		09/06/12 15:08	09/06/12 22:22	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		09/06/12 15:08	09/06/12 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		50 - 150				09/06/12 15:08	09/06/12 22:22	1

**Lab Sample ID: LCS 580-119460/2-A**

**Matrix: Solid**

**Analysis Batch: 119406**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 119460**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	520		mg/Kg		104	70 - 125
Motor Oil (>C24-C36)	500	541		mg/Kg		108	64 - 127
Surrogate	%Recovery	Qualifier	Limits				
<i>o</i> -Terphenyl	92		50 - 150				

**Lab Sample ID: 580-34631-16 DU**

**Matrix: Solid**

**Analysis Batch: 119406**

**Client Sample ID: D-15/16-5**

**Prep Type: Total/NA**

**Prep Batch: 119460**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
#2 Diesel (C10-C24)	ND		ND		mg/Kg	*	NC	35
Motor Oil (>C24-C36)	ND		ND		mg/Kg	*	NC	35

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 580-34631-16 DU**  
**Matrix: Solid**  
**Analysis Batch: 119406**

**Client Sample ID: D-15/16-5**  
**Prep Type: Total/NA**  
**Prep Batch: 119460**

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	142		50 - 150

**Lab Sample ID: MB 580-119515/1-A**  
**Matrix: Solid**  
**Analysis Batch: 119530**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 119515**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	ND		25		mg/Kg		09/07/12 09:51	09/07/12 19:54	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		09/07/12 09:51	09/07/12 19:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	94		50 - 150	09/07/12 09:51	09/07/12 19:54	1

**Lab Sample ID: LCS 580-119515/2-A**  
**Matrix: Solid**  
**Analysis Batch: 119530**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 119515**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
#2 Diesel (C10-C24)	500	494		mg/Kg		99	70 - 125
Motor Oil (>C24-C36)	500	541		mg/Kg		108	64 - 127

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	104		50 - 150

**Lab Sample ID: 580-34631-18 DU**  
**Matrix: Solid**  
**Analysis Batch: 119530**

**Client Sample ID: IDW-SOIL**  
**Prep Type: Total/NA**  
**Prep Batch: 119515**

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
#2 Diesel (C10-C24)	38	Y	ND		mg/Kg	☼	46	35
Motor Oil (>C24-C36)	ND		ND		mg/Kg	☼	NC	35

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	101		50 - 150

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 580-119006/11-A**  
**Matrix: Water**  
**Analysis Batch: 119093**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 119006**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.060		mg/L		08/30/12 15:53	08/31/12 10:28	1
Barium	ND		0.010		mg/L		08/30/12 15:53	08/31/12 10:28	1
Cadmium	ND		0.010		mg/L		08/30/12 15:53	08/31/12 10:28	1
Chromium	ND		0.025		mg/L		08/30/12 15:53	08/31/12 10:28	1
Lead	ND		0.030		mg/L		08/30/12 15:53	08/31/12 10:28	1
Selenium	ND		0.10		mg/L		08/30/12 15:53	08/31/12 10:28	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 580-119006/11-A**  
**Matrix: Water**  
**Analysis Batch: 119093**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 119006**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020		mg/L		08/30/12 15:53	08/31/12 10:28	1
Nickel	ND		0.020		mg/L		08/30/12 15:53	08/31/12 10:28	1
Copper	ND		0.020		mg/L		08/30/12 15:53	08/31/12 10:28	1
Zinc	ND		0.040		mg/L		08/30/12 15:53	08/31/12 10:28	1

**Lab Sample ID: LCS 580-119006/12-A**  
**Matrix: Water**  
**Analysis Batch: 119093**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 119006**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	3.88		mg/L		97	80 - 120
Barium	4.00	3.81		mg/L		95	80 - 120
Cadmium	0.100	0.0998		mg/L		100	80 - 120
Chromium	0.400	0.394		mg/L		98	80 - 120
Lead	1.00	0.993		mg/L		99	80 - 120
Selenium	4.00	3.86		mg/L		97	80 - 120
Silver	0.600	0.578		mg/L		96	80 - 120
Nickel	1.00	0.972		mg/L		97	80 - 120
Copper	0.500	0.476		mg/L		95	80 - 120
Zinc	1.00	0.966		mg/L		97	80 - 120

**Lab Sample ID: LCSD 580-119006/13-A**  
**Matrix: Water**  
**Analysis Batch: 119093**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total Recoverable**  
**Prep Batch: 119006**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.00	3.88		mg/L		97	80 - 120	0	20
Barium	4.00	3.78		mg/L		95	80 - 120	1	20
Cadmium	0.100	0.0997		mg/L		100	80 - 120	0	20
Chromium	0.400	0.393		mg/L		98	80 - 120	0	20
Lead	1.00	0.993		mg/L		99	80 - 120	0	20
Selenium	4.00	3.87		mg/L		97	80 - 120	0	20
Silver	0.600	0.578		mg/L		96	80 - 120	0	20
Nickel	1.00	0.974		mg/L		97	80 - 120	0	20
Copper	0.500	0.472		mg/L		94	80 - 120	1	20
Zinc	1.00	0.969		mg/L		97	80 - 120	0	20

**Lab Sample ID: MB 580-118585/1-B**  
**Matrix: Solid**  
**Analysis Batch: 118871**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 118729**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		08/28/12 13:23	08/29/12 12:33	1
Barium	ND		0.010		mg/L		08/28/12 13:23	08/29/12 12:33	1
Cadmium	ND		0.010		mg/L		08/28/12 13:23	08/29/12 12:33	1
Chromium	ND		0.025		mg/L		08/28/12 13:23	08/29/12 12:33	1
Lead	ND		0.030		mg/L		08/28/12 13:23	08/29/12 12:33	1
Selenium	ND		0.10		mg/L		08/28/12 13:23	08/29/12 12:33	1
Silver	ND		0.020		mg/L		08/28/12 13:23	08/29/12 12:33	1
Nickel	ND		0.020		mg/L		08/28/12 13:23	08/29/12 12:33	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 580-118585/1-B

Matrix: Solid

Analysis Batch: 118871

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 118729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.020		mg/L		08/28/12 13:23	08/29/12 12:33	1
Zinc	ND		0.040		mg/L		08/28/12 13:23	08/29/12 12:33	1

Lab Sample ID: LCS 580-118585/2-B

Matrix: Solid

Analysis Batch: 118871

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 118729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.30		mg/L		107	80 - 120
Barium	4.00	3.88		mg/L		97	80 - 120
Cadmium	0.100	0.102		mg/L		102	80 - 120
Chromium	0.400	0.405		mg/L		101	80 - 120
Lead	1.00	0.959		mg/L		96	80 - 120
Selenium	4.00	4.36		mg/L		109	80 - 120
Silver	0.600	0.590		mg/L		98	80 - 120
Nickel	1.00	1.06		mg/L		106	80 - 120
Copper	0.500	0.493		mg/L		99	80 - 120
Zinc	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-118585/3-B

Matrix: Solid

Analysis Batch: 118871

Client Sample ID: Lab Control Sample Dup

Prep Type: TCLP

Prep Batch: 118729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	4.00	4.24		mg/L		106	80 - 120	1	20
Barium	4.00	3.85		mg/L		96	80 - 120	1	20
Cadmium	0.100	0.101		mg/L		101	80 - 120	2	20
Chromium	0.400	0.399		mg/L		100	80 - 120	2	20
Lead	1.00	0.942		mg/L		94	80 - 120	2	20
Selenium	4.00	4.31		mg/L		108	80 - 120	1	20
Silver	0.600	0.576		mg/L		96	80 - 120	2	20
Nickel	1.00	1.04		mg/L		104	80 - 120	2	20
Copper	0.500	0.484		mg/L		97	80 - 120	2	20
Zinc	1.00	1.02		mg/L		102	80 - 120	2	20

Lab Sample ID: LCSSRM 580-118585/23-B

Matrix: Solid

Analysis Batch: 118871

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 118729

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.22		mg/L		106	80 - 120
Barium	4.00	3.87		mg/L		97	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.399		mg/L		100	80 - 120
Lead	1.00	0.945		mg/L		94	80 - 120
Selenium	4.00	4.27		mg/L		107	80 - 120
Silver	0.600	0.592		mg/L		99	80 - 120
Nickel	1.00	1.05		mg/L		105	80 - 120
Copper	0.500	0.487		mg/L		97	80 - 120
Zinc	1.00	1.02		mg/L		102	80 - 120

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 580-118733/18-A**  
**Matrix: Solid**  
**Analysis Batch: 118776**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 118733**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		08/28/12 13:42	08/28/12 15:54	1

**Lab Sample ID: LCS 580-118733/19-A**  
**Matrix: Solid**  
**Analysis Batch: 118776**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 118733**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0200	0.0195		mg/L		98	80 - 120

**Lab Sample ID: LCSD 580-118733/20-A**  
**Matrix: Solid**  
**Analysis Batch: 118776**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 118733**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0200	0.0200		mg/L		100	80 - 120	2	20

**Lab Sample ID: MB 580-118938/13-A**  
**Matrix: Water**  
**Analysis Batch: 118971**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 118938**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		08/30/12 09:50	08/30/12 11:52	1

**Lab Sample ID: LCS 580-118938/14-A**  
**Matrix: Water**  
**Analysis Batch: 118971**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 118938**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

**Lab Sample ID: LCSD 580-118938/15-A**  
**Matrix: Water**  
**Analysis Batch: 118971**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 118938**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00205		mg/L		103	80 - 120	2	20

**Lab Sample ID: LCSSRM 580-118938/16-A**  
**Matrix: Water**  
**Analysis Batch: 118971**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 118938**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00210		mg/L		105	75 - 125

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Method: D 2216 - Percent Moisture

Lab Sample ID: 580-34631-8 DU  
Matrix: Solid  
Analysis Batch: 119437

Client Sample ID: B-1-70  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	92		92		%		0.4	20
Percent Moisture	7.9		8.3		%		5	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

**Client Sample ID: B-1-20**  
**Date Collected: 08/23/12 15:34**  
**Date Received: 08/25/12 09:20**

**Lab Sample ID: 580-34631-1**  
**Matrix: Solid**  
**Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 21:22	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118637	08/29/12 00:06	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 16:29	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

**Client Sample ID: B-1-35**  
**Date Collected: 08/23/12 16:05**  
**Date Received: 08/25/12 09:20**

**Lab Sample ID: 580-34631-2**  
**Matrix: Solid**  
**Percent Solids: 90.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 21:10	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118876	08/30/12 12:37	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 16:46	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

**Client Sample ID: B-1-40**  
**Date Collected: 08/23/12 16:48**  
**Date Received: 08/25/12 09:20**

**Lab Sample ID: 580-34631-3**  
**Matrix: Solid**  
**Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 21:33	SK	TAL SEA
Total/NA	Prep	5035	DL		119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B	DL	20	119580	09/08/12 11:24	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		5	118876	08/30/12 11:44	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 17:03	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

**Client Sample ID: B-1-45**  
**Date Collected: 08/23/12 17:00**  
**Date Received: 08/25/12 09:20**

**Lab Sample ID: 580-34631-4**  
**Matrix: Solid**  
**Percent Solids: 95.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 21:55	SK	TAL SEA
Total/NA	Prep	5035	DL		119433	09/06/12 11:06	EZ	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Client Sample ID: B-1-45

Lab Sample ID: 580-34631-4

Date Collected: 08/23/12 17:00

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	119580	09/08/12 11:47	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		5	118876	08/30/12 12:10	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 17:19	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

## Client Sample ID: B-1-55

Lab Sample ID: 580-34631-5

Date Collected: 08/24/12 08:45

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			118958	08/30/12 11:26	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	118988	08/30/12 23:37	EK	TAL SEA
Total/NA	Analysis	D 2216		1	118726	08/28/12 12:51	EZ	TAL SEA

## Client Sample ID: B-1-60

Lab Sample ID: 580-34631-6

Date Collected: 08/24/12 08:59

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 22:18	SK	TAL SEA
Total/NA	Prep	5035	DL		119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B	DL	20	119580	09/08/12 12:10	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		25	118876	08/30/12 10:25	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/06/12 22:55	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

## Client Sample ID: B-1-65

Lab Sample ID: 580-34631-7

Date Collected: 08/24/12 09:00

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 22:40	SK	TAL SEA
Total/NA	Prep	5035	DL		119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B	DL	20	119580	09/08/12 12:33	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		20	118876	08/30/12 10:51	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/06/12 23:12	JL	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Client Sample ID: B-1-65

Date Collected: 08/24/12 09:00

Date Received: 08/25/12 09:20

## Lab Sample ID: 580-34631-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

## Client Sample ID: B-1-70

Date Collected: 08/24/12 09:40

Date Received: 08/25/12 09:20

## Lab Sample ID: 580-34631-8

Matrix: Solid

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 23:03	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118876	08/30/12 13:03	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/06/12 23:29	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119437	09/06/12 11:49	JL	TAL SEA

## Client Sample ID: D-1/2

Date Collected: 08/24/12 08:40

Date Received: 08/25/12 09:20

## Lab Sample ID: 580-34631-9

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 21:45	SK	TAL SEA
Total/NA	Prep	5035			118623	08/27/12 13:58	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	119128	08/31/12 21:45	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/06/12 23:45	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119232	09/04/12 14:40	EZ	TAL SEA

## Client Sample ID: D-3/4

Date Collected: 08/24/12 11:30

Date Received: 08/25/12 09:20

## Lab Sample ID: 580-34631-10

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 22:09	SK	TAL SEA
Total/NA	Prep	5035			118863	08/29/12 13:48	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118883	08/29/12 19:54	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/07/12 00:02	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Client Sample ID: D-5/6

Lab Sample ID: 580-34631-11

Date Collected: 08/24/12 09:30

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 22:32	SK	TAL SEA
Total/NA	Prep	5035			118863	08/29/12 13:48	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118883	08/29/12 20:17	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/07/12 00:19	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: D-7/8

Lab Sample ID: 580-34631-12

Date Collected: 08/24/12 07:55

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 23:26	SK	TAL SEA
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/07/12 00:51	SK	TAL SEA
Total/NA	Prep	5035			118863	08/29/12 13:48	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118883	08/29/12 20:39	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/07/12 00:36	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: D-9/10-5

Lab Sample ID: 580-34631-13

Date Collected: 08/23/12 17:10

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 22:56	SK	TAL SEA
Total/NA	Prep	5035			118696	08/28/12 10:54	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118718	08/28/12 23:12	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 18:10	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: D-11/12-5

Lab Sample ID: 580-34631-14

Date Collected: 08/23/12 17:05

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 23:19	SK	TAL SEA
Total/NA	Prep	5035			118696	08/28/12 10:54	EZ	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Client Sample ID: D-11/12-5

Lab Sample ID: 580-34631-14

Date Collected: 08/23/12 17:05

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	118718	08/28/12 23:34	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 18:26	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: D-13/14-5

Lab Sample ID: 580-34631-15

Date Collected: 08/23/12 15:04

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/06/12 23:42	SK	TAL SEA
Total/NA	Prep	5035			118696	08/28/12 10:54	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118718	08/28/12 23:56	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 18:43	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: D-15/16-5

Lab Sample ID: 580-34631-16

Date Collected: 08/24/12 11:58

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/07/12 00:05	SK	TAL SEA
Total/NA	Prep	5035			118696	08/28/12 10:54	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118718	08/29/12 00:18	GH	TAL SEA
Total/NA	Prep	3550B			119460	09/06/12 15:08	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119406	09/07/12 00:52	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: D-17/18

Lab Sample ID: 580-34631-17

Date Collected: 08/23/12 15:40

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/07/12 00:28	SK	TAL SEA
Total/NA	Prep	5035			118696	08/28/12 10:54	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118718	08/29/12 00:40	GH	TAL SEA
Total/NA	Prep	3550B			119380	09/05/12 17:14	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119405	09/06/12 19:00	JL	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Client Sample ID: IDW-SOIL

Lab Sample ID: 580-34631-18

Date Collected: 08/24/12 12:25

Matrix: Solid

Date Received: 08/25/12 09:20

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			119433	09/06/12 11:06	EZ	TAL SEA
Total/NA	Analysis	8260B		1	119464	09/06/12 23:48	SK	TAL SEA
Total/NA	Prep	5035			119484	09/06/12 18:45	SK	TAL SEA
Total/NA	Analysis	8260B		1	119485	09/07/12 01:14	SK	TAL SEA
Total/NA	Prep	5035			118696	08/28/12 10:54	EZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118718	08/29/12 01:02	GH	TAL SEA
Total/NA	Prep	3550B			119515	09/07/12 09:51	AA	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	119530	09/07/12 21:47	KKW	TAL SEA
TCLP	Leach	1311			118585	08/27/12 09:38	RS	TAL SEA
TCLP	Prep	7470A			118733	08/28/12 13:42	PAB	TAL SEA
TCLP	Analysis	7470A		1	118776	08/28/12 16:29	PAB	TAL SEA
TCLP	Prep	3010A			118729	08/28/12 13:16	PAB	TAL SEA
TCLP	Analysis	6010B		1	118871	08/29/12 13:24	HM	TAL SEA
Total/NA	Analysis	D 2216		1	119239	09/04/12 15:34	EZ	TAL SEA

## Client Sample ID: IDW-WATER

Lab Sample ID: 580-34631-19

Date Collected: 08/24/12 13:00

Matrix: Water

Date Received: 08/25/12 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	118780	08/29/12 14:19	MH	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	118763	08/29/12 07:27	GH	TAL SEA
Total/NA	Prep	3520C			118826	08/29/12 10:28	RD	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	118988	08/31/12 10:47	EK	TAL SEA
Total/NA	Prep	7470A			118938	08/30/12 09:50	PAB	TAL SEA
Total/NA	Analysis	7470A		1	118971	08/30/12 12:29	FCW	TAL SEA
Total Recoverable	Prep	3005A			119006	08/30/12 15:53	PAB	TAL SEA
Total Recoverable	Analysis	6010B		1	119093	08/31/12 11:31	HM	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

## Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13


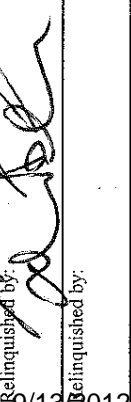

# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: SUNMART #30

TestAmerica Job ID: 580-34631-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34631-1	B-1-20	Solid	08/23/12 15:34	08/25/12 09:20
580-34631-2	B-1-35	Solid	08/23/12 16:05	08/25/12 09:20
580-34631-3	B-1-40	Solid	08/23/12 16:48	08/25/12 09:20
580-34631-4	B-1-45	Solid	08/23/12 17:00	08/25/12 09:20
580-34631-5	B-1-55	Solid	08/24/12 08:45	08/25/12 09:20
580-34631-6	B-1-60	Solid	08/24/12 08:59	08/25/12 09:20
580-34631-7	B-1-65	Solid	08/24/12 09:00	08/25/12 09:20
580-34631-8	B-1-70	Solid	08/24/12 09:40	08/25/12 09:20
580-34631-9	D-1/2	Solid	08/24/12 08:40	08/25/12 09:20
580-34631-10	D-3/4	Solid	08/24/12 11:30	08/25/12 09:20
580-34631-11	D-5/6	Solid	08/24/12 09:30	08/25/12 09:20
580-34631-12	D-7/8	Solid	08/24/12 07:55	08/25/12 09:20
580-34631-13	D-9/10-5	Solid	08/23/12 17:10	08/25/12 09:20
580-34631-14	D-11/12-5	Solid	08/23/12 17:05	08/25/12 09:20
580-34631-15	D-13/14-5	Solid	08/23/12 15:04	08/25/12 09:20
580-34631-16	D-15/16-5	Solid	08/24/12 11:58	08/25/12 09:20
580-34631-17	D-17/18	Solid	08/23/12 15:40	08/25/12 09:20
580-34631-18	IDW-SOIL	Solid	08/24/12 12:25	08/25/12 09:20
580-34631-19	IDW-WATER	Water	08/24/12 13:00	08/25/12 09:20

Chain of Custody Record

Client Contact		Project Manager: Dan Blaes		TA Project Manager: Ella Sandquist		Date:	
Blaes Environmental Inc		Tel/Fax: 602-549-0925		Lab Phone # 253-922-2310		Carrier:	
Billing contact:		Analysis Turnaround Time		Filtered Sample		COCs	
602-549-0925		TAT: If different from Below		NWTPH-Dx		Job No.	
Project Name: SUNMARK #30		<input type="checkbox"/> 10 days <input type="checkbox"/> 5 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		NWTPH-Gx		SDG No. 34631	
Site: 201-00001-30		Sample Date		Matrix		Sampler:	
P.O.#		Sample Time		# of Cont.		Sample Specific Notes:	
1- B-1-20		8/24/12 1534		541		Cooler/TB Dig (R) cor 4-2 unc 4-1	
2- B-1-35		1605		L		Cooler Dsc Log B/L/W/1@ Lab	
3- B-1-40		1648		L		WebPacks Packing bubble	
4- B-1-45		1700		L		w/6 Client Dir	
5- B-1-55		8/24/12 845		SOIL		Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
6- B-1-60		859		L		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
7- B-1-65		900		L		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant	
8- B-1-70		940		L		Special Instructions/QC Requirements & Comments:	
9- D-1/2		8/24/12 846		L		Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other	
10- D-3/4		8/24/12 1130		L		Possible Hazard Identification	
11- D-5/6		8/24/12 930		L		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant	
12- D-7/8		8/24/12 755		L		Relinquished by:  Date/Time: 8/24/12 1320 Relinquished by:  Date/Time: 8/25/12 920 Relinquished by:  Date/Time: 8/25/12 0920	



Chain of Custody Record

Client Contact		Project Manager: Dan Blaes		TA Project Manager: Ella Sandquist		Date:	
Blaes Environmental Inc		Tel/Fax: 602-549-0925		Lab Phone # 253-922-2310		Carrier:	
45 E Monterey Way, Suite 200		Billing contact:		8260 VOCs		Job No.	
Phoenix, AZ 85012		Analysis Turnaround Time		NWTPH-Dx		SDG No. 34631	
602-549-0925		<input type="checkbox"/> TAT if different from Below <input type="checkbox"/> 10 days <input type="checkbox"/> 5 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		NWTPH-Gx		Sampler:	
Project Name: SUN MANT # 30		STANDARD		Filtered Sample		Sample Specific Notes:	
Site: 201-00201-30				TSC - Michls			
P.O.#							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	NWTPH-Dx	NWTPH-Gx
D-9/10	8/23/12	1710	SOIL	SOIL	4	XX	XX
D-11/12	8/23/12	1705	SOIL	SOIL	4	XX	XX
D-13/14	8/23/12	1504			4	XX	XX
D-15/16	8/24/12	1158			4	XX	XX
D-17/18	8/23/12	1540			4	XX	XX
DOWN-SOIL	8/24/12	1225		DOWN	8	XX	XX
DOWN-WATER	8/24/12	1300		WATER	8	XX	XX
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							
Special Instructions/QC Requirements & Comments:							
Relinquished by:		Company: Blaes		Date/Time: 8/24/12 1320		Company: Blaes	
Relinquished by:		Company: Blaes		Date/Time: 8/25/12 920		Company: TA-SEA	
Relinquished by:		Company:		Date/Time:		Company:	



## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-34631-1

**Login Number: 34631**

**List Number: 1**

**Creator: Riley, Nicole**

**List Source: TestAmerica Seattle**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	This information is not filled out on the COC.
There are no discrepancies between the sample IDs on the containers and the COC.	False	See NCM.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	See NCM for discrepancies.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

**APPENDIX E**

**WASTE DISPOSAL DOCUMENTATION**

<b>Generator's Waste Profile 518149-00</b>
--

Starts : 31 OCT 2011  
 Expires: 30 OCT 2012  
 Printed: 05 OCT 2012

Status : ACTIVE

Sales Rep 280 Erlin Burraston  
 Acct Mngr 0054 Matt Essig

**A: GENERATOR ( 201990 ) SITE INFORMATION**

SUNMART #30  
 6006 W CLEARWATER AVE  
 KENNEWICK, WA 98336  
 > Contact STACEY FAULKNER  
 TSDF Approval List No

EPA CESQG  
 NAICS Neshap N  
 Phone (425) 527-9714

**B: CUSTOMER ( 30281 ) INFORMATION**

CASCADE DRILLING INC.  
 19404 WOODINVILLE SNOHOMISH RD NE  
 WOODINVILLE, WA 98072

**C: WASTE INFORMATION**

On File > MSDS No Analysis Yes Sample No

Waste Name NON-HAZ SOIL  
 Process SITE INVESTIGATION  
 Unused Commercial Product No Spill Residue No

**D: PHYSICAL CHARACTERISTICS OF WASTE**

Phys States	S-Sol	Top Color	VARIES	Odor	None	PH Range	NA
		Mid Color		Layers	Single Phased	Free Liq %	0-20%
		Bot Color		Spec Grav	1.2-1.4	Flash Test	Gen Knowledge
		% Ash		BTU/Lbs		Flash Rnge	NA
		% Water		% Halogens		Viscosity	High
						Pumpable	No

**E: CHEMICAL COMPOSITION OF WASTE**

NON-HAZ SOIL	( 100 % )	WATER	( 0 - 20 % )
PCB's 0	Cyanides 0	Phenolics 0	Sulfides 0
TOC <1%	VOC <500 PPM		Dioxins 0
			Information Provided By Generator

**F: METALS METHOD**

Gen Knowledge	Cadmium <1	Chromium <5	Silver <5	Zinc
Arsenic <5	Merc TCLP <0.2	Selenium <1	Nickel	Copper
Barium <100	Lead <5	Merc Tot	Thallium	Chrome-6

**G: OTHER CHARACTERISTICS OF WASTE**

Ign. Solid No	Oxidizer No	Explosive No	Shock Sensitive No	Cyanide Reactive No	Sulfide Reactive No
Explosive	Asbestos N/A	Radioactive No	Water Reactive No	Reactive (Other) No	
Herbicides 0	Pesticides 0	Ammonia 0	Infectious No	Medical No	

**H: EPA / STATE WASTE IDENTIFICATION**

EPA Waste No	State Waste No	TSCA No	Waste Water No	Universal Waste No
Form W301	Source G49	Origin 1	SubPart CC No	NESHAP No
				CERCLA No
				Debris No
				Reg. Organics No

EPA Codes  
 State Codes  
 UHC

Categorical Discharge Standards No

DWEIHW:

**I: SHIPPING INFORMATION**

Marine Pollutant No

Containers	DM Metal Drum	Qty to Ship Now	Projected Volume	Monthly
DOT Descrip	MATERIAL NOT REGULATED BY DOT			

**J: SPECIAL DISPOSAL INSTRUCTIONS**

Waste Categs LF01 STAB01

<b>Generator's Waste Profile 518149-00</b>	Status : ACTIVE
Starts : 31 OCT 2011	Sales Rep 280 Erin Burraston
Expires: 30 OCT 2012	Acct Mngr 0054 Matt Essig
Printed: 05 OCT 2012	

**GENERATOR CERTIFICATION**

I hereby certify, as an authorized representative of the Generator named above, that Burlington Environmental, LLC has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate. If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing.



Signature

DAN BATES for CIRCLE K ENVIRON. MGR.

Printed Name

Title

Date

10/18/12

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).

<b>Generator's Waste Profile 518150-00</b>
--

Starts : 31 OCT 2011  
 Expires: 30 OCT 2012  
 Printed: 05 OCT 2012

Status : ACTIVE

Sales Rep 280 Erin Burraston  
 Acct Mngr 0054 Matt Essig

**A: GENERATOR ( 201990 ) SITE INFORMATION****B: CUSTOMER ( 30281 ) INFORMATION**

SUNMART #30  
 6006 W CLEARWATER AVE  
 KENNEWICK, WA 99336  
 > Contact STACEY FAULKNER  
 TSDF Approval List No

EPA CESQG  
 NAICS Neshap N  
 Phone (425) 527-9714

CASCADE DRILLING INC.  
 19404 WOODINVILLE SNOHOMISH RD NE  
 WOODINVILLE, WA 98072

**C: WASTE INFORMATION**

On File > MSDS No Analysis Yes Sample No

Waste Name NON-HAZ WATER  
 Process SITE INVESTIGATION  
 Unused Commercial Product No Spill Residue No

**D: PHYSICAL CHARACTERISTICS OF WASTE**

Phys States	L-Liq	Top Color	VARIES	Odor	None	PH Range	NA
		Mid Color		Layers	Single Phased	Free Liq %	NA
		Bot Color		Spec Grav	1.0	Flash Test	Gen Knowledge
		% Ash		BTU/Lbs		Flash Rnge	NA
		% Water		% Halogens		Viscosity	Low
						Pumpable	Yes

**E: CHEMICAL COMPOSITION OF WASTE**

NON-HAZ WATER ( 100 % )  
 PCB's 0 Cyanides 0 Phenolics 0 Sulfides 0 Dioxins 0  
 TOC <1% VOC <500 PPM  
 Information Provided By Generator

**F: METALS METHOD** Gen Knowledge Cadmium <1 Chromium <5 Silver <5 Zinc  
 Arsenic <5 Merc TCLP <0.2 Selenium <1 Nickel Copper  
 Barium <100 Lead <5 Merc Tot Thallium Chrome-6

**G: OTHER CHARACTERISTICS OF WASTE**

Ign. Solid	No	Oxidizer	No	Explosive	No	Shock Sensitive	No	Cyanide Reactive	No	Sulfide Reactive	No
Explosive	N/A	Asbestos	N/A	Radioactive	No	Water Reactive	No	Reactive (Other)	No		
Herbicides	0	Pesticides	0	Ammonia	0	Infectious	No	Medical	No		

**H: EPA / STATE WASTE IDENTIFICATION** EPA Waste No State Waste No TSCA No Waste Water No Universal Waste No  
 Form W101 Source G49 Origin 1 SubPart CC No NESHAPS No CERCLA No Debris No Reg. Organics No

EPA Codes  
 State Codes  
 UHC

Categorical Discharge Standards No

DW/IEHW:

**I: SHIPPING INFORMATION**

Marine Pollutant No

Containers	DM Metal Drum	Qty to Ship Now	Projected Volume
DOT Descrip	MATERIAL NOT REGULATED BY DOT		

**J: SPECIAL DISPOSAL INSTRUCTIONS**

Waste Categs WAT05

**Generator's Waste Profile 518150-00**


Starts : 31 OCT 2011  
Expires: 30 OCT 2012  
Printed: 05 OCT 2012

Status : ACTIVE

Sales Rep 280 Erin Burraston  
Acct Mngr 0054 Matt Essig

**GENERATOR CERTIFICATION**

I hereby certify, as an authorized representative of the Generator named above, that Burlington Environmental, LLC has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate. If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing.

 _____ Signature	<u>DAN BUES for CROOK</u> _____ Printed Name	<u>ENVIRON-MGR</u> _____ Title	<u>10/18/12</u> _____ Date
---	--	--------------------------------------	----------------------------------

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).

\*\*\*24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 \*\*\*



SHIPPING PAPER

Lading Manifest: 717746-12

SHIPPER / CUSTOMER <b>SUNWART #30</b>		DELIVERY DATE <b>10.25.12</b>	JOB # <b>1548245</b>
ADDRESS <b>6006 W CLEARWATER AVE</b>		POINT OF CONTACT <b>STACEY FAULKNER</b>	
CITY, STATE, ZIP <b>KENNEWICK WA 99336</b>		PHONE # <b>(425)527-9714</b>	
CARRIER / TRANSPORTER <b>BURLINGTON ENVIRONMENTAL, LLC</b>		PHONE # <b>(253)383-3044</b>	
CONSIGNEE / FACILITY <b>BURLINGTON ENVIRONMENTAL, LLC.</b>		POINT OF CONTACT	
ADDRESS <b>20245 77TH AVENUE SOUTH</b>		PHONE # <b>(253)872-8030</b>	
CITY, STATE, ZIP <b>KENT , WA 98032</b>			

HAZ	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers		Total Quantity	UOM
		No.	Type		
A	MATERIAL NOT REGULATED BY DOT	4	DM	3200	P
B	MATERIAL NOT REGULATED BY DOT	1	DM	186	P
C					
D					

Special Handling Instruction and Additional Information:

- a) 518149-00 - NON-HAZ SOIL - 1701 STABOIL (1) b) 518150-00 - NON-HAZ WATER - WAT05 (2)

Placards Provided YES \_\_\_\_\_ NO

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I also certify that all times listed above are true and correct.

(SHIPPER) PRINT OR TYPE NAME X <b>CIRCLE K STORES INC.</b>	SIGNATURE X <i>[Signature]</i>	MONTH <b>10</b>	DAY <b>23</b>	YEAR <b>12</b>
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME X <i>Eugene Lee</i>	SIGNATURE X <i>[Signature]</i>	MONTH <b>10</b>	DAY <b>25</b>	YEAR <b>12</b>
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME X <i>Owens Cruz</i>	SIGNATURE X <i>[Signature]</i>	MONTH <b>11</b>	DAY <b>7</b>	YEAR <b>12</b>

CONSIGNEE

**APPENDIX B**  
**LITHOLOGIC LOGS**



Boring Location Sketch:  Refer to Figure 2						Project No: 202-06049-03		Date: 7/11/13		Boring No.	
						Client: Circle K		Casing installation data:		B-3/VE-1A	
						Location: 6006 West Clearwater Ave.					
						City: Kennewick, WA					
						Logged By: AG		Driller: Cascade Drilling		Sheet No.	
				1							
Drilling Method: CME-75 LAR Hollow stem auger						Top of box elevation: NA		Top of casing elevation: NA			
Boring Diameter:						Water Level: NA		Sand: NA			
						Time: NA		Bentonite: NA			
						Date: NA		Cement Grout: NA			
Depth (Feet)	Sample Number	Sample Int.	Time	BLOW counts	Well Detail	Soil Symbol USCS					
0			07:45				0 to 3": Asphalt				
5			08:28				5': Cobble and boulder with some sand and gravel				
10	B3-10'		08:43	100/5"			10': Cobble and gravel with some sand, basalts rounded to subrounded, with gray silt, very hard, slightly moist, strong HC odor, 1635 ppm				
15	B3-15'		09:25	100/5"			15': No lithology recovery 16': As above, 2350 ppm				
20	B3-20'		09:50	100/4"			20': As above, 5030 ppm				
25	B3-25'		10:15				25': As above, 3300 ppm				
30	B3-30'		10:35				30': As above, 9999+ ppm				
32	B3-32'		10:50				32': Refusal				



Boring Location Sketch:  Refer to Figure 2	Project No: 202-06049-01	Date: 9/19-20/13	Boring No.
	Client: Circle K		MW-1
	Location: 6006 West Clearwater Ave.		
	City: Kennewick, WA		Sheet No.
	Logged By: AG	Driller: Cascade Drilling	
Casing installation data:			

Drilling Method: CME-75 LAR Hollow stem auger

Boring Diameter:	Top of box elevation: NA	Top of casing elevation: NA	
------------------	--------------------------	-----------------------------	--

Depth (Feet)	Sample Number	Sample Int.	Time	BLOW counts	Well Detail	Soil Symbol USCS	Water Level	Sand	Bentonite	Cement Grout	3' bgs-surfac
35			14:15				NA				
40			14:33			GM GW	NA				
45			15:00				NA				
50			07:15								
55			07:35								
60			07:45			GP					
65			07:58								
68	MW1-68'		08:15	3,6,28		GW					

35': Sand/silt mix with some gravel, dry

40': Sand/silt mix with some gravel, dry

45': Sand/silt mix with some gravel, dry

50': Sandy gravel, dark gray-brown

55': Sandy gravel, dark gray-brown

60': Sandy gravel, dark gray-brown

65': Sandy gravel, dark gray-brown

68': Gravel poorly graded with some silt, rocks consist mostly of basalt, med dense, dry, gray-brown.  
 (Possible sluff sample due to low blow count and low PID)

Boring Location Sketch:  Refer to Figure 2	Project No: 202-06049-01	Date: 9/20/13	Boring No.
	Client: Circle K		MW-1
	Location: 6006 West Clearwater Ave.		
	City: Kennewick, WA		Sheet No.
	Logged By: AG	Driller: Cascade Drilling	
Casing installation data:			

Drilling Method: CME-75 LAR Hollow stem auger			
---	--	--	--

Boring Diameter:	Top of box elevation: NA	Top of casing elevation: NA	
------------------	--------------------------	-----------------------------	--

Depth (Feet)	Sample Number	Sample Int.	Time	BLOW counts	Well Detail	Soil Symbol USCS	Water Level	Sand	Bentonite	Cement Grout	3' bgs-surfac						
													NA				
													NA				

70											
75					GM						
80	MW1-78'		09:55	10,50/3"	GM						
85					GW						
90	MW1-88'		11:11	16,50/3"							
95					GP						
100	MW1-98'		12:17	10,17,50/6	SP						

78': Rounded gravel, well graded, with some sand and cobbles, gray brown, dense, HC odor, saturated, 1221 ppm

88': Sandy gravel, gray-brown, dense, saturated, 13.1 ppm

98': Coarse grained sand, very dense, gray-brown to black, saturated, 2.9 ppm

Boring Location Sketch:  Refer to Figure 2	Project No: 202-06049-01	Date: 9/19-20/13	Boring No.
	Client: Circle K		MW-1
	Location: 6006 West Clearwater Ave.		
	City: Kennewick, WA		Sheet No.
	Logged By: AG	Driller: Cascade Drilling	
Casing installation data:			

Drilling Method: CME-75 LAR Hollow stem auger	Top of box elevation: NA	Top of casing elevation: NA	
---	--------------------------	-----------------------------	--

Boring Diameter:	Water Level: NA	Sand	
	Time: NA	Bentonite	
	Date: NA	Cement Grout	

Depth (Feet)	Sample Number	Sample Int.	Time	BLOW counts	Well Detail	Soil Symbol USCS	
105						SP	
	MW1-108'		13:50	100/5"			108': Sandy gravel, rounded, multiple lithologies, very dense, saturated, 2.5 ppm
110						GM	
115							
	MW1-118'		15:28	5,50/5"			118': Sandy gravel, rounded, multiple lithologies, very dense, saturated, 2.5 ppm
120							
125						GP	
	MW1-128'		16:29	4,50/2"			128': Sandy gravel, rounded to subrounded, multiple lithologies, dar gray-brown to black, very dense, 1.4 ppm
130							
135							
							138': No sample, assumed as above

Boring Location Sketch:  <p style="text-align: center;">Refer to Figure 2</p>	Project No: 202-06049-01	Date: 9/20/13	Boring No.
	Client: Circle K		MW-1
	Location: 6006 West Clearwater Ave.		
	City: Kennewick, WA		Sheet No.
	Logged By: AG	Driller: Cascade Drilling	
Casing installation data:			

Drilling Method: CME-75 LAR Hollow stem auger

Boring Diameter:	Top of box elevation: NA	Top of casing elevation: NA	
------------------	--------------------------	-----------------------------	--

Depth (Feet)	Sample Number	Sample Int.	Time	BLOW counts	Well Detail	Soil Symbol USCS	Water Level	Sand	Bentonite	Cement Grout
							NA			
							NA			
							NA			

140										
145						GP GM				
150	MW1-148'		18:05	5,7,50/2						
155										
160										
165										
170										

148': Sandy gravel, rounded, multiple lithologies, very dense, saturated, 2.5 ppm

**BLAES**

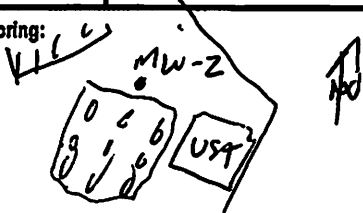
Environmental  
Management, Inc.  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. CIRCLE K #6049  
Client  
Location KENNESAW, GA  
Logged By D. BLAES  
Permit No.

Boring No.  
MW-2  
Sheet 1  
of     

Field location of boring:



Drilling Co.: ARC ROTARY  
Drill Rig Model:  
Drilling Method: CAS GRADE DRILLING  
Hole Diameter: 10"  
Drillers Name:

Ground Elev.

Soil Boring Completion:

Time	Blow Counts (6")	PID Response (ppm Iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to	Depth to
										Date	Date
					1					9/24/13	
					2						
					3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						
					15						
					16						
					17						
					18						
					19						
					20						
					21						
					22						
					23						
					24						
					25						
					26						
					27						
					28						
					29						
					30						
					31						

**DESCRIPTION**

Asphalt  
0-48' Sand, silt & cobbles  
(see hollow stem Auger Drill  
Boring results)

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

**FIELD LOG OF  
 EXPLORATORY SOIL  
 BORING**

Project No. C11RCE K #6079  
 Client  
 Location KEANWELLCO, WY  
 Logged By D. BATES  
 Permit No.

Boring No.  
 MW-2  
 Sheet 2  
 of

Field location of boring:

Drilling Co.: CASCADIA DRILLING  
 Drill Rig Model: MR RATHAY  
 Drilling Method:  
 Hole Diameter:  
 Drillers Name:

Soil Boring Completion:

Ground Elev.

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	DESCRIPTION	
										Depth to Date Time	Depth to Date Time
					32						
					33						
					34						
					35						
					36						
					37						
					38						
					39						
					40						
					41						
					42						
					43						
					44						
					45						
					46						
					47						
					48						
					49						
					50						
					51						
					52						
					53						
					54						
					55						
					56						
					57						
					58						
					59						
					60						
					61						
					62						

See 1st Page  
 Hand drilling

SW  
 Soil, with gravel, fine gravel, coarse, dark brown, ~~no~~ no odor

Gravel, no fines, all rock ~ No sample recovery

Prepared By: \_\_\_\_\_

Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Date \_\_\_\_\_



Environmental Management, Inc.  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. CIRCLEK #6049  
Client KENNEWICK, WA  
Location D. BUTES  
Logged By  
Permit No.

Boring No. MW-2  
Sheet 3  
of     

Field location of boring:

Drilling Co.:  
Drill Rig Model:  
Drilling Method:  
Hole Diameter:  
Drillers Name:

Ground Elev.

Soil Boring Completion:

Time	Blow Counts (6")	PID Response (ppm Iso)	Recovery (Inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to Date Time	Depth to Date Time	DESCRIPTION
					63							
					64							
					65							
					66							
					67							
3:40	46/50	0.1	1 ft	NW-2 68'	68	☒		SW		9/24/13		Sand, fine to coarse gravel, well graded, dense with gravel, moist, no odor, brown
					69							
					70							
					71							
					72							
					73							
					74							
					75							
					76							
					77							
4:30	35/60	0.0		NW-2 78'	78	☒		SW				Sand, fine to coarse gravel, well graded with gravel, dense, no odor, brown
					79							
					80							
					81							
					82							
					83							
					84							
					85							
					86							
					87							
5:10	35/60	0.0		NW-2 88'	88	☒		SW				Sand, fine to coarse gravel, well graded with gravel, dense, moist, brown, no odor
					89							
					90							
					91							
					92							
					93							

**BLAES**

Environmental  
Management, Inc.  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012

## FIELD LOG OF EXPLORATORY SOIL BORING

Project No. **CIRCLE K #6049**  
Client  
Location **KENNEWICK, WA**  
Logged By **D. BLUES**  
Permit No.

Boring No.  
**MW-2**  
Sheet **4**  
of **—**

Field location of boring:

Drilling Co.: **CASCADE DRILLING**  
Drill Rig Model: **MR RAINY**  
Drilling Method:  
Hole Diameter: **10"**  
Drillers Name: **ED**

Ground Elev.

Soil Boring Completion:

Time	Blow Counts (F)	PID Response (ppm iso)	Recovery (inches)	Sample I.D.	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to Date Time	Depth to Date Time	DESCRIPTION
					94					9/25/13	= 129'	
8:00	20/50	0.2		MW-2 27	98	X						Sand, fine to coarse grad, well gradel, very dense, brown, moist, no odor
					99							
					100							
					101							
					102							
					103							
					104							
					105							
					106							
9:00	30/50	0.1		MW-2 108	108	X						Sand, same as above
					109							
					110							
					111							
					112							
					113							
					114							
					115							
					116							
10:10	20/50	0.0		MW-2 118	118	X						SM Sand, silty, fine grad, <sup>denser</sup> slightly cohesive light brown, dry, no odor (contains smaller amount of gravel than previous depths)
					119							
					120							
					121							
					122							
					123							
					124							

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_ Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_

**BLAES**Environmental Management, Inc.  
45 E. Monterey Way, Ste. 200  
Phoenix, AZ 85012**FIELD LOG OF EXPLORATORY SOIL BORING**Project No. **CIRCLE K #6069**  
Client **KENNEWICK, WA**  
Location **KENNEWICK, WA**  
Logged By **D. BUTES**  
Permit No.Boring No. **MW-2**  
Sheet **5**  
of **—**

Field location of boring:

Drilling Co.: **CASCADE DRILLING**  
Drill Rig Model:  
Drilling Method: **AIR ROTARY**  
Hole Diameter: **16 1/2"**  
Drillers Name: **ED**

Ground Elev.

Soil Boring Completion:

Time	Blow Counts (6")	PID Response (ppm iso)	Recovery (inches)	Sample ID	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to Date Time	Depth to Date Time	DESCRIPTION
					125							
					126							
					127							
					128							
<b>11:00 AM</b>	<b>5/50</b>	<b>0.20</b>		<b>MW-2 128'</b>	129				<b>SU</b>	<b>9/25/13</b>	<b>2129</b>	<b>Soil, fine to coarse sand, well graded, dense, brown, wet, no odor</b>
					130							
					131							
					132							
					133							
					134							
					135							
					136							
					137							
					138							
					139							
					140							
					141							
					142							
					143							
					144							
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					146							
					147							
					148							
					149							
					150							
					151							
					152							
					153							
					154							
					155							

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_ Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**FIELD LOG OF EXPLORATORY SOIL BORING**

Project No. 202-6049-05  
 Client Circle K #6049  
 Location Kennewick, Washington  
 Logged By D. Blaes  
 Permit No.

Boring No. **VE-3**

PAGE 1 OF

DRILLING:

MAP OF BORING LOCATION:

Drilling Co. Cascade Drilling  
 Drill Rig Model  
 Drilling Method Rotasonic  
 Hole Diameter  
 Drillers Name **RON**  
 Soil Boring Completion:

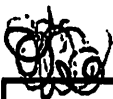
START TIME: **7:30 AM**  
 FINISH TIME:  
 DATE: **6/1/16**  
 DATE:

TIME	BOREHOLE PID	SAMPLE TYPE	BLOW COUNTS (6")	INCHES DRIVEN	INCHES RECOVERED	SAMPLE ID	PID RESPONSE (ppmV)	USCS SYMBOL	DEPTH IN FEET (BGS)	Depth to Date Time	Depth to Date Time	SOIL DESCRIPTIONS	WELL DETAILS
									0			HAND CURED 0-4' WITH POST HOLE DIGGER	
									1			SILTY SAND WITH COBBLES AND GRAVEL STARTING APPROX. 3' BGS.	
									2				
									3				
									4				
									5			SAND SILTY, FINE TO COARSE GRAINED WITH GRAVEL AND COBBLES, <del>POORLY</del> SORTED, LOOSE, BROWN, DRY NO OTDR	
									6				
									7				
									8				
									9				
									10			SAME AS ABOVE	
									11				
									12				
									13				
									14				
8:30 AM						VE-3 C15'	0.0		15			SAND, SILTY, FINE TO COARSE GRAINED WITH GRAVEL AND COBBLES, <del>POORLY</del> SORTED, LOOSE, GREY TO BROWN, DRY, NO OTDR	
									16				
									17				
									18				
									19				
									20			SAME AS ABOVE	

ASTM DESC: group name (grain type & size, grading, plasticity), consistency, cementation, angularity, color (staining), moisture cont., odor, etc.

SAMPLE TYPES: split spoon (SS), continuous core (CC), grab (G), solid barrel (SB)

- Apparent Depth
- Measured Depth



# FIELD LOG OF EXPLORATORY SOIL BORING

Project No. 202-8049-05  
 Client Circle K #8049  
 Location Kennewick, Washington  
 Logged By D. Blaas  
 Permit No.

Boring No.

VE-3

PAGE 2

OF

TIME	BOREHOLE PID	SAMPLE TYPE	BLOW COUNTS (6")	INCHES DRIVEN	INCHES RECOVERED	SAMPLE ID	PID RESPONSE (ppmv)	USCS SYMBOL	DEPTH IN FEET (BGS)	Depth to Date Time	Depth to Date Time	WELL DETAILS
									20			
									21			
									22			
									23			
									24			
8:58						VE-3 025' 0.0			25			
									26			
									27			
									28			
									29			
									30			
									31			
									32			
									33			
									34			
9:45						VE-3 035' 0.1			35			
									36			
									37			
									38			
									39			
									40			
									41			
									42			
									43			
									44			
10:32						VE-3 045' 0.3			45			
									46			
									47			
									48			
									49			
									50			

ASTM DESC: group name (grain type & size, grading, plasticity), consistency, cementation, angularity, color (staining), moisture cont., odor, etc.

SAMPLE TYPES: split spoon (SS), continuous core (CC), grab (G), solid barrel (SB)

☒ Apparent Depth    ☒ Measured Depth



**FIELD LOG OF EXPLORATORY SOIL BORING**

Project No. 202-6049-05  
 Client Circle K #6049  
 Location Kennewick, Washington  
 Logged By D. Blaes  
 Permit No.

Boring No. **VE-3**  
 PAGE 3 OF

TIME	BOREHOLE PID	SAMPLE TYPE	BLOW COUNTS (6")	INCHES DRIVEN	INCHES RECOVERED	SAMPLE ID	PID RESPONSE (ppmv)	USCS SYMBOL	DEPTH IN FEET (BGS)	Depth to Date Time	Depth to Date Time	WELL DETAILS
									50			
									51			
									52			
									53			
									54			
12:08						VE-3 @ 55' 0.5		SP	55			
									56			
									57			
									58			
									59			
									60			
									61			
									62			
									63			
									64			
1:57						VE-3 @ 65 0.4			65			
									66			
									67			
									68			
									69			
									70			
									71			
									72			
									73			
									74			
2:26 PM						VE-3 @ 75			75			
									76			
									77			
									78			
									79			
									80			

ASTM DESC: group name (grain type & size, grading, plasticity), consistency, cementation, angularity, color (staining), moisture cont., odor, etc.  
 SAMPLE TYPES: split spoon (SS), continuous core (CC), grab (G), solid barrel (SB)  
 ☒ Apparent Depth      ☑ Measured Depth



**FIELD LOG OF EXPLORATORY SOIL BORING**

Project No. 202-6049-05  
 Client Circle K #6049  
 Location Kennewick, Washington  
 Logged By D. Blaes  
 Permit No.

Boring No. **VE-4**  
 PAGE 1 OF

MAP OF BORING LOCATION:

Drilling Co. Cascade Drilling  
 Drill Rig Model  
 Drilling Method Rotasonic  
 Hole Diameter  
 Drillers Name

START: TIME  
 FINISH: TIME  
 DATE DATE:

Soil Boring Completion:

TIME	BOREHOLE PID	SAMPLE TYPE	BLOW COUNTS (6")	INCHES DRIVEN	INCHES RECOVERED	SAMPLE ID	PID RESPONSE (ppmV)	USCS SYMBOL	DEPTH IN FEET (BGS)	Depth to Date Time	Depth to Date Time	WELL DETAILS	
									0			SOIL DESCRIPTIONS	
									1	6/21/16			HAND CLEARED TO 4' WITH FIRST HOLE DIGGER
									2				
									3				
									4				
									5				SAND, SILTY FINE TO COARSE GRAIN WITH GRAVEL AND COBBLES, <del>WET</del> POWELL
									6				SAND GRADED, BROWN, DRY, NO ODOR
									7				
									8				
									9				
									10				SAME AS ABOVE, NO ODOR
									11				
									12				
									13				
									14				
9:55AM						VE-4 C15'			15				SAME AS ABOVE, NO ODOR
									16				
									17				
									18				
									19				
									20			SAME AS ABOVE, NO ODOR	

ASTM DESC: group name (grain type & size, grading, plasticity), consistency, cementation, angularity, color (staining), moisture cont., odor, etc.

SAMPLE TYPES: split spoon (SS), continuous core (CC), grab (G), solid barrel (SB)

- ☒ Apparent Depth
- ☑ Measured Depth



**FIELD LOG OF EXPLORATORY SOIL BORING**

Project No. 202-6049-05  
 Client Circle K #6049  
 Location Kennewick, Washington  
 Logged By D. Blaes  
 Permit No.

Boring No. VE-4  
 PAGE 2 OF

TIME	BOREHOLE PID	SAMPLE TYPE	BLOW COUNTS (6')	INCHES DRIVEN	INCHES RECOVERED	SAMPLE ID	PID RESPONSE (ppmV)	USCS SYMBOL	DEPTH IN FEET (BGS)	Depth to	Depth to	WELL DETAILS
										Date	Date	
										Time	Time	
SOIL DESCRIPTIONS												
									20			
									21			
									22			
									23			
									24			
10:46 <sub>AM</sub>						VE-4 @ 25'			25			
									26			
									27			
									28			
									29			
									30			
									31			
									32			
									33			
									34			
									35			
11:35 <sub>AM</sub>						VE-4 @ 35'			36			
									37			
									38			
									39			
									40			
									41			
									42			
									43			
									44			
									45			
12:28						VE-4 @ 45'			46			
									47			
									48			
									49			
									50			

SAND, SILTY, FINE TO COARSE GRAINED, WITH GRAVEL AND COBBLES WELL GRADED, BROWN, DRY, NO ODOOR TIGHT

SAME AS ABOVE

SAND, SILTY, w/ GRAVEL AND COBBLES W/ GRST, TIGHT, NO ODOOR

SAME AS ABOVE

SAME AS ABOVE

WELL SCREEN 15-45 0.02 SLOT

SAND 14-45

BENT. 11-14

GROUT 0-11

2" PVC VAPOR WREN

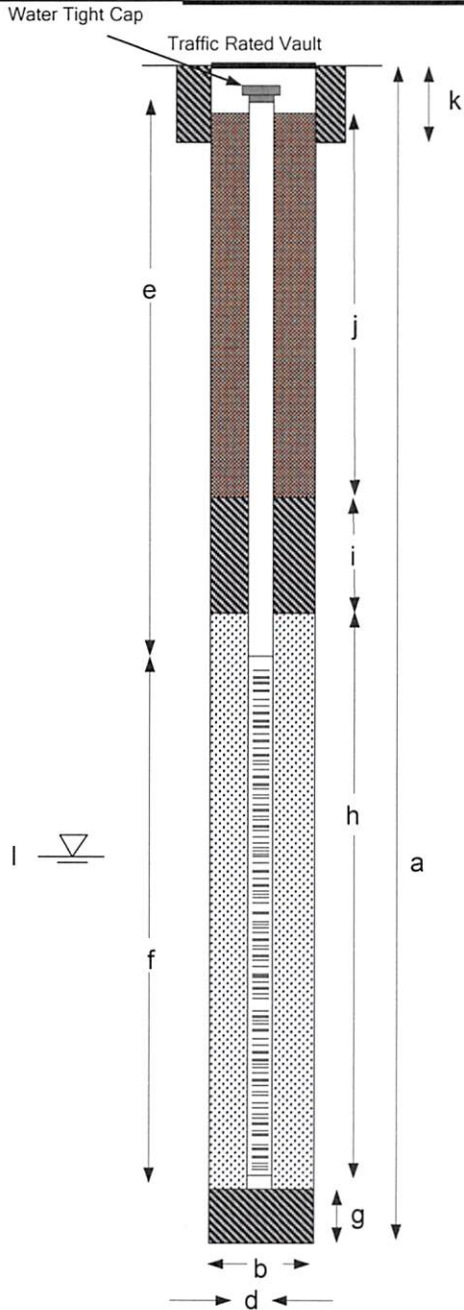
ASTM DESC: group name (grain type & size, grading, plasticity), consistency, cementation, angularity, color (staining), moisture cont., odor, etc  
 SAMPLE TYPES: split spoon (SS), continuous core (CC), grab (G), solid barrel (SB)  
 ☒ Apparent Depth    ☑ Measured Depth

**APPENDIX C**  
**WELL DIAGRAMS**

# Monitoring Well

PROJECT NUMBER 202-6049  
 PROJECT NAME Circle K #6049  
 LOCATION Kennewick, WA  
 WELL PERMIT NO. \_\_\_\_\_

BORING / WELL NO. MW-1  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE 9/20/2013



Not To Scale

### EXPLORATORY BORING

a. Total depth 148 ft.  
 b. Diameter 10 in.  
 Drilling method Air Rotary

### WELL CONSTRUCTION

c. Total casing length 148 ft.  
 Material Schedule 40 PVC  
 d. Casing Diameter 4 in.  
 e. Length of Blank Casing 48 ft.  
 f. Screen Interval 100 ft. @ 148 ft.  
 Perforation type Machine Slot  
 Perforation size 0.020 inch  
 g. Bottom seal 0 ft.  
 Seal material None  
 h. Sand Pack interval 105 ft. @ 45-148 ft.  
 Pack material Silica Sand  
 i. Seal 5 ft.  
 Seal material Hydrated bentonite  
 j. Surface Seal 40 ft.  
 Seal material Cement Grout  
 k. Surface Completion \_\_\_\_\_ ft.  
 Completion Material Well Box  
 l. Depth to groundwater Est 120 ft.  
 below ground surface

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

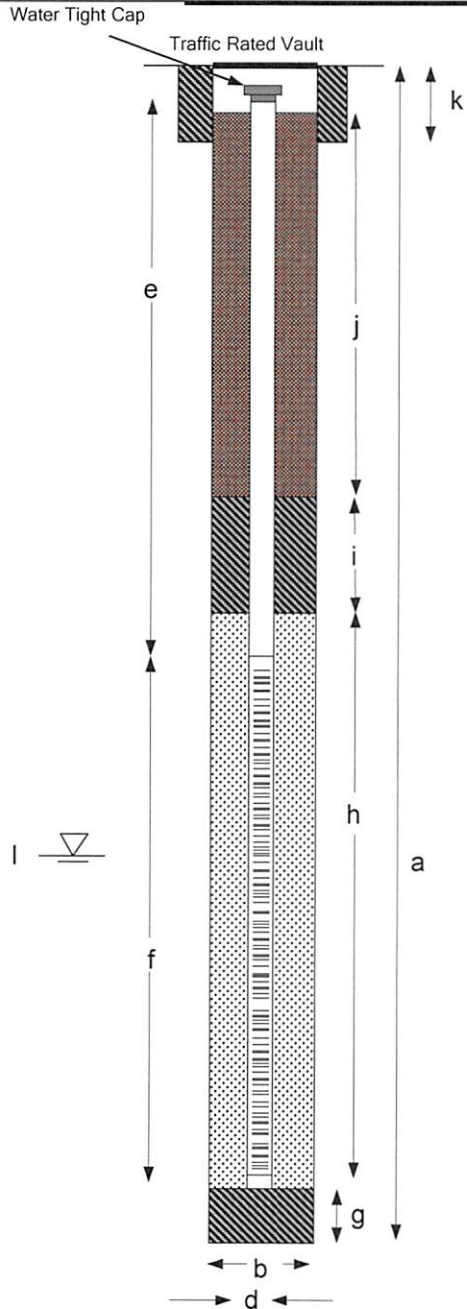
Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Well Construction	Attachment
<b style="font-size: 24px; margin-left: 10px;">Blaes</b> ENVIRONMENTAL	

# Monitoring Well

PROJECT NUMBER 202-6049  
 PROJECT NAME Circle K #6049  
 LOCATION Kennewick, WA  
 WELL PERMIT NO. \_\_\_\_\_

BORING / WELL NO. MW-2  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE 9/24/2013



### EXPLORATORY BORING

a. Total depth 148 ft.  
 b. Diameter 10 in.  
 Drilling method Air Rotary

### WELL CONSTRUCTION

c. Total casing length 148 ft.  
 Material Schedule 40 PVC  
 d. Casing Diameter 4 in.  
 e. Length of Blank Casing 48 ft.  
 f. Screen Interval 100 ft. @ 48-148 ft.  
 Perforation type Machine Slot  
 Perforation size 0.020 inch  
 g. Bottom seal 0 ft.  
 Seal material None  
 h. Sand Pack interval 105 ft. @ 45-148 ft.  
 Pack material Silica Sand  
 i. Seal 5 ft.  
 Seal material Hydrated bentonite  
 j. Surface Seal 40 ft.  
 Seal material Cement Grout  
 k. Surface Completion \_\_\_\_\_ ft.  
 Completion Material Well Box  
 l. Depth to groundwater Est 120 ft.  
 below ground surface

Not To Scale

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

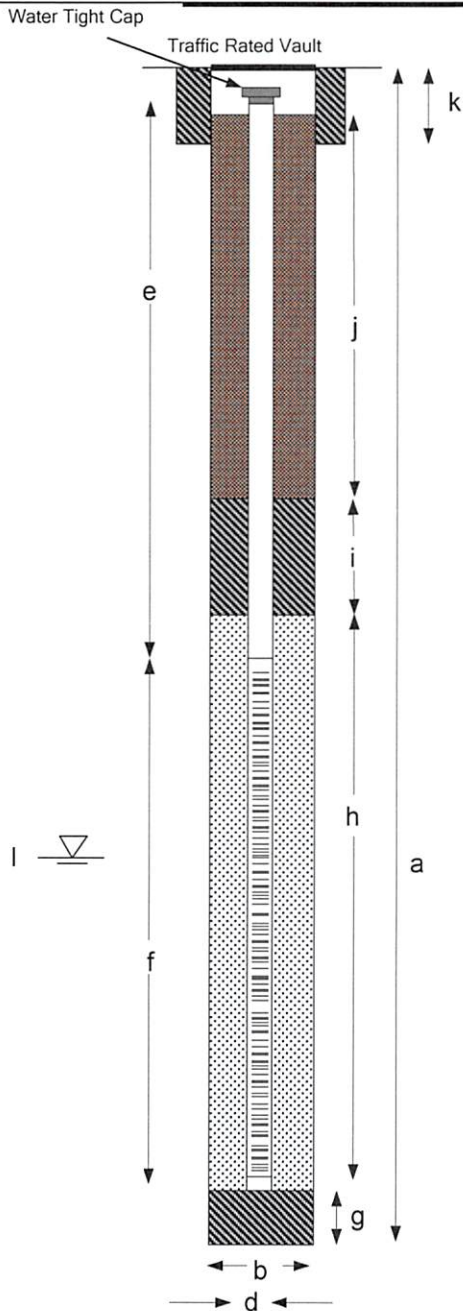
Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Well Construction	Attachment
<b style="font-size: 24px; margin-left: 10px;">Blaes</b> ENVIRONMENTAL	

# Monitoring Well

PROJECT NUMBER 202-6049  
 PROJECT NAME Circle K #6049  
 LOCATION Kennewick, WA  
 WELL PERMIT NO. \_\_\_\_\_

BORING / WELL NO. VE-1A  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE 7/12/2013



Not To Scale

### EXPLORATORY BORING

a. Total depth 32 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow-Stem Auger

### WELL CONSTRUCTION

c. Total casing length 32 ft.  
 Material Schedule 40 PVC  
 d. Casing Diameter 2 in.  
 e. Length of Blank Casing 12 ft.  
 f. Screen Interval 20 ft. @ 12-32 ft.  
 Perforation type Machine Slot  
 Perforation size 0.020 inch  
 g. Bottom seal 0 ft.  
 Seal material None  
 h. Sand Pack interval 22 ft. @ 10-32 ft.  
 Pack material Silica Sand  
 i. Seal 5 ft.  
 Seal material Hydrated bentonite  
 j. Surface Seal 5 ft.  
 Seal material Cement Grout  
 k. Surface Completion \_\_\_\_\_ ft.  
 Completion Material Well Box  
 l. Depth to groundwater Est 120 ft.  
 below ground surface

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

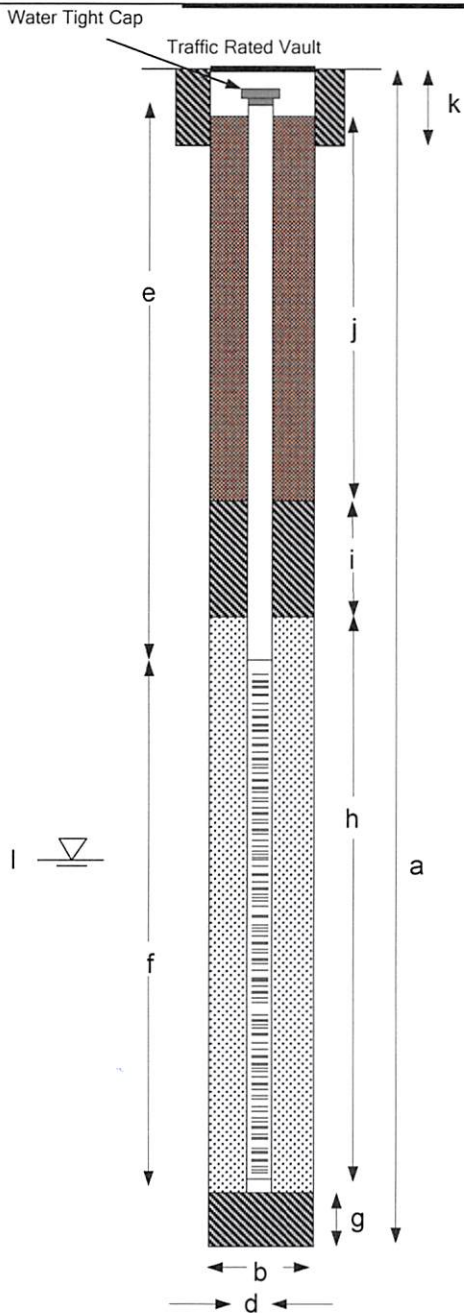
Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Well Construction	Attachment
<b style="font-size: 24px; margin-left: 10px;">Blaes</b> ENVIRONMENTAL	

# Monitoring Well

PROJECT NUMBER 202-6049  
 PROJECT NAME Circle K #6049  
 LOCATION Kennewick, WA  
 WELL PERMIT NO. \_\_\_\_\_

BORING / WELL NO. VE-1B  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE 5/28/2014



Not To Scale

### EXPLORATORY BORING

a. Total depth 20 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow-Stem Auger

### WELL CONSTRUCTION

c. Total casing length 20 ft.  
 Material Schedule 40 PVC  
 d. Casing Diameter 2 in.  
 e. Length of Blank Casing 5 ft.  
 f. Screen Interval 15 ft. @ 5-20 ft.  
 Perforation type Machine Slot  
 Perforation size 0.020 inch  
 g. Bottom seal 0 ft.  
 Seal material None  
 h. Sand Pack interval 16 ft. @ 4-20 ft.  
 Pack material Silica Sand  
 i. Seal 2 ft.  
 Seal material Hydrated bentonite  
 j. Surface Seal 2 ft.  
 Seal material Cement Grout  
 k. Surface Completion \_\_\_\_\_ ft.  
 Completion Material Well Box  
 l. Depth to groundwater below ground surface Est 120 ft.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

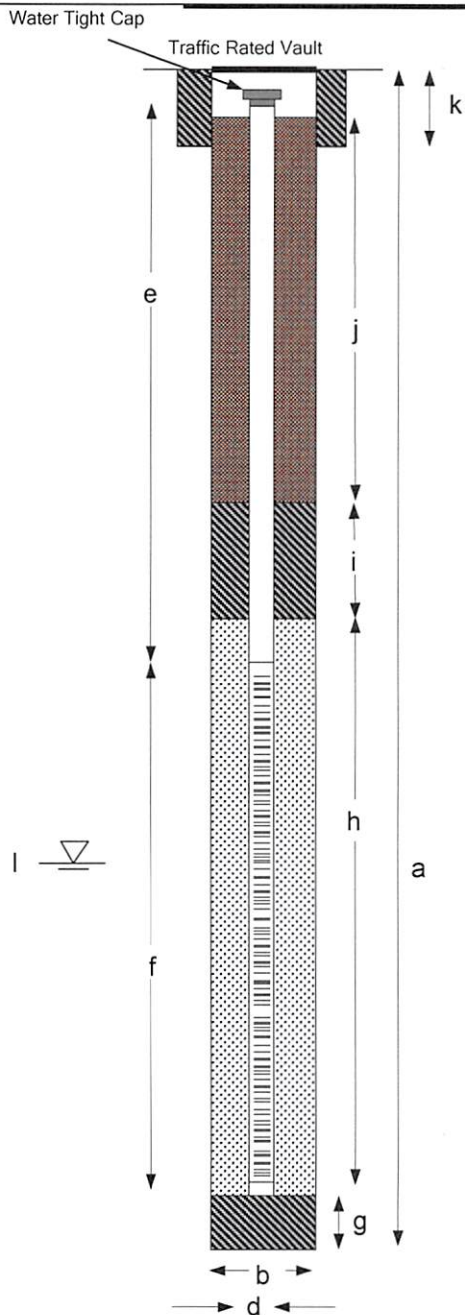
Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Well Construction	Attachment
<b style="font-size: 24px; margin-left: 10px;">Blaes</b> ENVIRONMENTAL	

# Monitoring Well

PROJECT NUMBER 202-6049  
 PROJECT NAME Circle K #6049  
 LOCATION Kennewick, WA  
 WELL PERMIT NO. \_\_\_\_\_

BORING / WELL NO. VE-2  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 INSTALLATION DATE 5/29-30/14



Not To Scale

### EXPLORATORY BORING

a. Total depth 56 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow-Stem Auger

### WELL CONSTRUCTION

c. Total casing length 55 ft.  
 Material Schedule 40 PVC  
 d. Casing Diameter 2 in.  
 e. Length of Blank Casing 15 ft.  
 f. Screen Interval 40 ft. @ 15-55 ft.  
 Perforation type Machine Slot  
 Perforation size 0.020 inch  
 g. Bottom seal 0 ft.  
 Seal material None  
 h. Sand Pack interval 43 ft. @ 13-56 ft.  
 Pack material Silica Sand  
 i. Seal 2 ft.  
 Seal material Hydrated bentonite  
 j. Surface Seal 13 ft.  
 Seal material Cement Grout  
 k. Surface Completion \_\_\_\_\_ ft.  
 Completion Material Well Box  
 l. Depth to groundwater Est 120 ft.  
 below ground surface

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Well Construction	Attachment
<b style="font-size: 1.2em; margin-left: 10px;">Blaes</b> ENVIRONMENTAL	

**APPENDIX D**  
**SOIL ANALYTICAL REPORTS**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-39338-1

Client Project/Site: CK 6049 Kennewick Wa

For:

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
7/22/2013 5:07:54 PM

Pam Johnson, Project Manager I  
[pamr.johnson@testamericainc.com](mailto:pamr.johnson@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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Chronicle . . . . .	35
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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

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## Job ID: 580-39338-1

---

### Laboratory: TestAmerica Seattle

#### Narrative

---

##### Receipt

The samples were received on 7/13/2013 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0° C.

Except:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): B2-10' (580-39338-1), B2-15' (580-39338-2), B2-20' (580-39338-3), B3-10' (580-39338-4), B3-15' (580-39338-5), B3-20' (580-39338-6), B3-25' (580-39338-7), B3-30' (580-39338-8). The container labels list sample times. The COC does not list sample times. Logged in sample time per container labels.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Received Trip Blank not listed on COC. Added to COC with earliest sample date of 07/11/112013 and default time of 0000. No analyses assigned to Trip Blank.

##### GC/MS VOA - Method 8260B

The following sample B3-10' (580-39338-4) was diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided. The sample can't be run at a lower dilution due to possible instrument damage.

The following samples B3-25' (580-39338-7), B3-30' (580-39338-8) were diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided. 1,2,4-Trimethylbenzene already an "E" value. Trying to avoid instrument damage.

In analysis batch 140028, the target analytes o-Xylene, n-Butylbenzene, Naphthalene, m-Xylene & p-Xylene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene were flagged "E" for outside calibration range of the instrument. The samples were logged in for medium level methanolic analysis.

The laboratory control sample (LCS) for batch 140159 recovered outside control limits for 1,2-Dichloropropane. These analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The data have been qualified "\*" and reported.

No other analytical or quality issues were noted.

##### GC/MS VOA - Method NWTPH-Gx

In analysis batch 140179, the associated samples B3-15' (580-39338-5) and B3-20' (580-39338-6) were reanalyzed due to the likelihood of carryover from a previously analyzed sample in the original analysis.

No other analytical or quality issues were noted.

##### GC Semi VOA - Method NWTPH-Dx

In analysis batch 140155, for the following samples B3-10' (580-39338-4), B3-25' (580-39338-7) from prep batch 139984, the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely resembles a complex mixture of a weathered gasoline/kerosene range product, and heavily weathered/degraded diesel fuel.

The affected analyte range is qualified "Y" and has been reported.

In analysis batch 140155, for the following samples B3-15' (580-39338-5), B3-20' (580-39338-6) and B3-30' (580-39338-8) from prep batch 139984, the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely resembles a complex mixture of a weathered gasoline/kerosene range product.

The affected analyte range is qualified "Y" and has been reported.

No other analytical or quality issues were noted.

##### General Chemistry

No analytical or quality issues were noted.



# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

---

## Job ID: 580-39338-1 (Continued)

---

Laboratory: TestAmerica Seattle (Continued)

### Organic Prep

No analytical or quality issues were noted.

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# Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.

### GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B2-10'**

**Lab Sample ID: 580-39338-1**

**Date Collected: 07/11/13 15:50**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 96.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,1,1-Trichloroethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,1,2-Trichloroethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,1-Dichloroethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,1-Dichloroethene	ND		4.9		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,1-Dichloropropene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2,3-Trichloropropane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2-Dichlorobenzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,2-Dichloropropane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,3-Dichlorobenzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,3-Dichloropropane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
1,4-Dichlorobenzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
2,2-Dichloropropane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
2-Chlorotoluene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
4-Chlorotoluene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
4-Isopropyltoluene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Benzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Bromobenzene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Bromoform	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Bromomethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Carbon tetrachloride	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Chlorobenzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Chlorobromomethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Chlorodibromomethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Chloroethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Chloroform	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Chloromethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
cis-1,2-Dichloroethene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
cis-1,3-Dichloropropene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Dibromomethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Dichlorobromomethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Dichlorodifluoromethane	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
EDB	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
EDC	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Ethylbenzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Hexachlorobutadiene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Isopropylbenzene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Methyl tert-butyl ether	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Methylene Chloride	ND		15		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
<b>m-Xylene &amp; p-Xylene</b>	<b>7.2</b>		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
Naphthalene	ND		4.9		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
n-Butylbenzene	ND		2.0		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1
N-Propylbenzene	ND		0.98		ug/Kg	*	07/13/13 13:30	07/16/13 17:47	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B2-10'**

**Lab Sample ID: 580-39338-1**

**Date Collected: 07/11/13 15:50**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 96.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>3.2</b>		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
sec-Butylbenzene	ND		2.0		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
Styrene	ND		2.0		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
tert-Butylbenzene	ND		2.0		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
Tetrachloroethene	ND		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
Toluene	ND		2.0		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
trans-1,2-Dichloroethene	ND		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
trans-1,3-Dichloropropene	ND		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
Trichloroethene	ND		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
Trichlorofluoromethane	ND		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1
Vinyl chloride	ND		0.98		ug/Kg	☼	07/13/13 13:30	07/16/13 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 120	07/13/13 13:30	07/16/13 17:47	1
Ethylbenzene-d10	101		70 - 120	07/13/13 13:30	07/16/13 17:47	1
Fluorobenzene (Surr)	101		80 - 120	07/13/13 13:30	07/16/13 17:47	1
Toluene-d8 (Surr)	95		80 - 120	07/13/13 13:30	07/16/13 17:47	1
Trifluorotoluene (Surr)	89		65 - 140	07/13/13 13:30	07/16/13 17:47	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.8		mg/Kg	☼	07/15/13 10:38	07/15/13 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		50 - 150	07/15/13 10:38	07/15/13 18:02	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg	☼	07/15/13 13:49	07/17/13 12:06	1
Motor Oil (>C24-C36)	ND		49		mg/Kg	☼	07/15/13 13:49	07/17/13 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	07/15/13 13:49	07/17/13 12:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>96</b>		0.10		%			07/17/13 08:58	1
<b>Percent Moisture</b>	<b>3.5</b>		0.10		%			07/17/13 08:58	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B2-15'**

**Lab Sample ID: 580-39338-2**

**Date Collected: 07/11/13 16:03**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 95.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,1,1-Trichloroethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,1,2-Trichloroethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,1-Dichloroethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,1-Dichloroethene	ND		4.3		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,1-Dichloropropene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2,3-Trichlorobenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2,3-Trichloropropane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2,4-Trimethylbenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2-Dibromo-3-Chloropropane	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2-Dichlorobenzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,2-Dichloropropane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,3-Dichlorobenzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,3-Dichloropropane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
1,4-Dichlorobenzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
2,2-Dichloropropane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
2-Chlorotoluene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
4-Chlorotoluene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
4-Isopropyltoluene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Benzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Bromobenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Bromoform	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Bromomethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Carbon tetrachloride	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Chlorobenzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Chlorobromomethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Chlorodibromomethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Chloroethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Chloroform	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Chloromethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
cis-1,2-Dichloroethene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
cis-1,3-Dichloropropene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Dibromomethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Dichlorobromomethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Dichlorodifluoromethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
EDB	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
EDC	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Ethylbenzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Hexachlorobutadiene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Isopropylbenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Methyl tert-butyl ether	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Methylene Chloride	ND		13		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
<b>m-Xylene &amp; p-Xylene</b>	<b>8.2</b>		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
<b>Naphthalene</b>	<b>7.9</b>		4.3		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
n-Butylbenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
N-Propylbenzene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B2-15'**

**Lab Sample ID: 580-39338-2**

**Date Collected: 07/11/13 16:03**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 95.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>3.3</b>		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
sec-Butylbenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Styrene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
tert-Butylbenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Tetrachloroethene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Toluene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
trans-1,2-Dichloroethene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
trans-1,3-Dichloropropene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Trichloroethene	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Trichlorofluoromethane	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
Vinyl chloride	ND		0.85		ug/Kg	☼	07/13/13 13:30	07/16/13 18:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	98		70 - 120				07/13/13 13:30	07/16/13 18:10	1
Ethylbenzene-d10	97		70 - 120				07/13/13 13:30	07/16/13 18:10	1
Fluorobenzene (Surr)	100		80 - 120				07/13/13 13:30	07/16/13 18:10	1
Toluene-d8 (Surr)	95		80 - 120				07/13/13 13:30	07/16/13 18:10	1
Trifluorotoluene (Surr)	84		65 - 140				07/13/13 13:30	07/16/13 18:10	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>5.5</b>		3.9		mg/Kg	☼	07/15/13 10:38	07/15/13 18:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	105		50 - 150				07/15/13 10:38	07/15/13 18:24	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		24		mg/Kg	☼	07/15/13 13:50	07/17/13 12:42	1
Motor Oil (>C24-C36)	ND		48		mg/Kg	☼	07/15/13 13:50	07/17/13 12:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	90		50 - 150				07/15/13 13:50	07/17/13 12:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>96</b>		0.10		%			07/17/13 08:58	1
<b>Percent Moisture</b>	<b>4.2</b>		0.10		%			07/17/13 08:58	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B2-20'**

**Lab Sample ID: 580-39338-3**

**Date Collected: 07/11/13 16:21**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 95.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,1,1-Trichloroethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,1,2,2-Tetrachloroethane	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,1,2-Trichloroethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,1-Dichloroethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,1-Dichloroethene	ND		4.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,1-Dichloropropene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2,3-Trichlorobenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2,3-Trichloropropane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2-Dibromo-3-Chloropropane	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2-Dichlorobenzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,2-Dichloropropane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,3-Dichlorobenzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,3-Dichloropropane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
1,4-Dichlorobenzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
2,2-Dichloropropane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
2-Chlorotoluene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
4-Chlorotoluene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
4-Isopropyltoluene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Benzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Bromobenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Bromoform	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Bromomethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Carbon tetrachloride	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Chlorobenzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Chlorobromomethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Chlorodibromomethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Chloroethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Chloroform	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Chloromethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
cis-1,2-Dichloroethene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
cis-1,3-Dichloropropene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Dibromomethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Dichlorobromomethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Dichlorodifluoromethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
EDB	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
EDC	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Ethylbenzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Hexachlorobutadiene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Isopropylbenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Methyl tert-butyl ether	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Methylene Chloride	ND		14		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
<b>m-Xylene &amp; p-Xylene</b>	<b>11</b>		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
<b>Naphthalene</b>	<b>17</b>		4.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
n-Butylbenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
N-Propylbenzene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B2-20'**

**Lab Sample ID: 580-39338-3**

**Date Collected: 07/11/13 16:21**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 95.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>4.7</b>		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
sec-Butylbenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Styrene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
tert-Butylbenzene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Tetrachloroethene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Toluene	ND		1.9		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
trans-1,2-Dichloroethene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
trans-1,3-Dichloropropene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Trichloroethene	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Trichlorofluoromethane	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1
Vinyl chloride	ND		0.93		ug/Kg	☼	07/13/13 13:30	07/16/13 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	07/13/13 13:30	07/16/13 18:33	1
Ethylbenzene-d10	105		70 - 120	07/13/13 13:30	07/16/13 18:33	1
Fluorobenzene (Surr)	102		80 - 120	07/13/13 13:30	07/16/13 18:33	1
Toluene-d8 (Surr)	93		80 - 120	07/13/13 13:30	07/16/13 18:33	1
Trifluorotoluene (Surr)	82		65 - 140	07/13/13 13:30	07/16/13 18:33	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>4.9</b>		4.0		mg/Kg	☼	07/15/13 10:38	07/15/13 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		50 - 150	07/15/13 10:38	07/15/13 18:46	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	07/15/13 13:50	07/17/13 13:00	1
Motor Oil (>C24-C36)	ND		51		mg/Kg	☼	07/15/13 13:50	07/17/13 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	07/15/13 13:50	07/17/13 13:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>96</b>		0.10		%			07/17/13 08:58	1
<b>Percent Moisture</b>	<b>4.4</b>		0.10		%			07/17/13 08:58	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-10'**

**Lab Sample ID: 580-39338-4**

**Date Collected: 07/12/13 08:43**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 94.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,1,1-Trichloroethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,1,1,2,2-Tetrachloroethane	ND		180		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,1,2-Trichloroethane	ND		220		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,1-Dichloroethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,1-Dichloroethene	ND		360		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,1-Dichloropropene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,2,3-Trichlorobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,2,3-Trichloropropane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,2,4-Trichlorobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>1,2,4-Trimethylbenzene</b>	<b>140000</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,2-Dibromo-3-Chloropropane	ND		3600		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,2-Dichlorobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,2-Dichloropropane	ND	*	220		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>1,3,5-Trimethylbenzene</b>	<b>46000</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,3-Dichlorobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,3-Dichloropropane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
1,4-Dichlorobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
2,2-Dichloropropane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
2-Chlorotoluene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
4-Chlorotoluene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>4-Isopropyltoluene</b>	<b>920</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Benzene	ND		290		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Bromobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Bromoform	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Bromomethane	ND		2500		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Carbon tetrachloride	ND		360		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Chlorobenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Chlorobromomethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Chlorodibromomethane	ND		360		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Chloroethane	ND		7300		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Chloroform	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Chloromethane	ND		7300		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
cis-1,2-Dichloroethene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
cis-1,3-Dichloropropene	ND		290		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Dibromomethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Dichlorobromomethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Dichlorodifluoromethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
EDB	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
EDC	ND		290		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>Ethylbenzene</b>	<b>1800</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Hexachlorobutadiene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>Isopropylbenzene</b>	<b>3100</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Methyl tert-butyl ether	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>Methylene Chloride</b>	<b>620</b>		290		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>m-Xylene &amp; p-Xylene</b>	<b>120000</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>Naphthalene</b>	<b>12000</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>n-Butylbenzene</b>	<b>24000</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>N-Propylbenzene</b>	<b>9500</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-10'**

**Lab Sample ID: 580-39338-4**

Date Collected: 07/12/13 08:43

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 94.1

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>70000</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>sec-Butylbenzene</b>	<b>1200</b>		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Styrene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
tert-Butylbenzene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Tetrachloroethene	ND		360		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Toluene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
trans-1,2-Dichloroethene	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
trans-1,3-Dichloropropene	ND		290		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Trichloroethene	ND		290		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Trichlorofluoromethane	ND		730		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
Vinyl chloride	ND		150		ug/Kg	☼	07/17/13 07:45	07/17/13 15:58	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		70 - 120				07/17/13 07:45	07/17/13 15:58	20
Ethylbenzene-d10	113		70 - 120				07/17/13 07:45	07/17/13 15:58	20
Fluorobenzene (Surr)	96		80 - 120				07/17/13 07:45	07/17/13 15:58	20
Toluene-d8 (Surr)	101		80 - 120				07/17/13 07:45	07/17/13 15:58	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>2000</b>		360		mg/Kg	☼	07/15/13 10:38	07/17/13 12:59	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		50 - 150				07/15/13 10:38	07/17/13 12:59	100

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>450</b>	<b>Y</b>	26		mg/Kg	☼	07/15/13 13:50	07/17/13 13:53	1
Motor Oil (>C24-C36)	ND		51		mg/Kg	☼	07/15/13 13:50	07/17/13 13:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	96		50 - 150				07/15/13 13:50	07/17/13 13:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>94</b>		0.10		%			07/17/13 08:58	1
<b>Percent Moisture</b>	<b>5.9</b>		0.10		%			07/17/13 08:58	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-15'**

**Lab Sample ID: 580-39338-5**

**Date Collected: 07/12/13 09:35**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 97.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	21000		380		ug/Kg	☼	07/17/13 07:45	07/17/13 16:21	10
n-Butylbenzene	8800		380		ug/Kg	☼	07/17/13 07:45	07/17/13 16:21	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120				07/17/13 07:45	07/17/13 16:21	10
Ethylbenzene-d10	107		70 - 120				07/17/13 07:45	07/17/13 16:21	10
Fluorobenzene (Surr)	95		80 - 120				07/17/13 07:45	07/17/13 16:21	10
Toluene-d8 (Surr)	100		80 - 120				07/17/13 07:45	07/17/13 16:21	10

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,1,1-Trichloroethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,1,2,2-Tetrachloroethane	ND		9.6		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,1,2-Trichloroethane	ND		11		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,1-Dichloroethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,1-Dichloroethene	ND		19		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,1-Dichloropropene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,2,3-Trichlorobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,2,3-Trichloropropane	220		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,2,4-Trichlorobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,2-Dibromo-3-Chloropropane	ND		190		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,2-Dichlorobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,2-Dichloropropane	ND		11		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,3,5-Trimethylbenzene	6200		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,3-Dichlorobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,3-Dichloropropane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
1,4-Dichlorobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
2,2-Dichloropropane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
2-Chlorotoluene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
4-Chlorotoluene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
4-Isopropyltoluene	200		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Benzene	ND		15		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Bromobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Bromoform	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Bromomethane	ND		130		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Carbon tetrachloride	ND		19		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Chlorobenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Chlorobromomethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Chlorodibromomethane	ND		19		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Chloroethane	ND		380		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Chloroform	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Chloromethane	ND		380		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
cis-1,2-Dichloroethene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
cis-1,3-Dichloropropene	ND		15		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Dibromomethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Dichlorobromomethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Dichlorodifluoromethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
EDB	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
EDC	ND		15		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-15'**

**Lab Sample ID: 580-39338-5**

Date Collected: 07/12/13 09:35

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 97.2

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethylbenzene</b>	<b>110</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Hexachlorobutadiene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
<b>Isopropylbenzene</b>	<b>230</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Methyl tert-butyl ether	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Methylene Chloride	ND		15		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
<b>m-Xylene &amp; p-Xylene</b>	<b>7000</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
<b>Naphthalene</b>	<b>4000</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
<b>N-Propylbenzene</b>	<b>580</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
<b>o-Xylene</b>	<b>5300</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
<b>sec-Butylbenzene</b>	<b>180</b>		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Styrene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
tert-Butylbenzene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Tetrachloroethene	ND		19		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Toluene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
trans-1,2-Dichloroethene	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
trans-1,3-Dichloropropene	ND		15		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Trichloroethene	ND		15		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Trichlorofluoromethane	ND		38		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1
Vinyl chloride	ND		7.6		ug/Kg	☼	07/17/13 07:45	07/20/13 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 120	07/17/13 07:45	07/20/13 12:43	1
Ethylbenzene-d10	115		70 - 120	07/17/13 07:45	07/20/13 12:43	1
Fluorobenzene (Surr)	93		80 - 120	07/17/13 07:45	07/20/13 12:43	1
Toluene-d8 (Surr)	100		80 - 120	07/17/13 07:45	07/20/13 12:43	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>360</b>		3.8		mg/Kg	☼	07/15/13 10:38	07/17/13 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150	07/15/13 10:38	07/17/13 14:50	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>120</b>	<b>Y</b>	25		mg/Kg	☼	07/15/13 13:50	07/17/13 14:11	1
Motor Oil (>C24-C36)	ND		50		mg/Kg	☼	07/15/13 13:50	07/17/13 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	07/15/13 13:50	07/17/13 14:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>97</b>		0.10		%			07/17/13 08:58	1
<b>Percent Moisture</b>	<b>2.8</b>		0.10		%			07/17/13 08:58	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-20'**

**Lab Sample ID: 580-39338-6**

**Date Collected: 07/12/13 09:50**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 97.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,1,1-Trichloroethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,1,2-Trichloroethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,1-Dichloroethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,1-Dichloroethene	ND		4.3		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,1-Dichloropropene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,2,3-Trichlorobenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,2,3-Trichloropropane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>1,2,4-Trimethylbenzene</b>	<b>750</b>	<b>E</b>	1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,2-Dibromo-3-Chloropropane	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,2-Dichlorobenzene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,2-Dichloropropane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>1,3,5-Trimethylbenzene</b>	<b>870</b>	<b>E</b>	4.3		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,3-Dichlorobenzene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,3-Dichloropropane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
1,4-Dichlorobenzene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
2,2-Dichloropropane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
2-Chlorotoluene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
4-Chlorotoluene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>4-Isopropyltoluene</b>	<b>35</b>		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Benzene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Bromobenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Bromoform	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Bromomethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Carbon tetrachloride	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Chlorobenzene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Chlorobromomethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Chlorodibromomethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Chloroethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Chloroform	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Chloromethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
cis-1,2-Dichloroethene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
cis-1,3-Dichloropropene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Dibromomethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Dichlorobromomethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Dichlorodifluoromethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
EDB	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
EDC	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>Ethylbenzene</b>	<b>5.9</b>		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Hexachlorobutadiene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>Isopropylbenzene</b>	<b>20</b>		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Methyl tert-butyl ether	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Methylene Chloride	ND		13		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>m-Xylene &amp; p-Xylene</b>	<b>470</b>	<b>E</b>	1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>Naphthalene</b>	<b>440</b>	<b>E</b>	4.3		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>n-Butylbenzene</b>	<b>2400</b>	<b>E</b>	1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>N-Propylbenzene</b>	<b>55</b>		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-20'**

**Lab Sample ID: 580-39338-6**

Date Collected: 07/12/13 09:50

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 97.3

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>450</b>	<b>E</b>	0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>sec-Butylbenzene</b>	<b>31</b>		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Styrene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
tert-Butylbenzene	ND		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Tetrachloroethene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>Toluene</b>	<b>2.4</b>		1.7		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
trans-1,2-Dichloroethene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
trans-1,3-Dichloropropene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Trichloroethene	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Trichlorofluoromethane	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
Vinyl chloride	ND		0.86		ug/Kg	☼	07/13/13 13:30	07/16/13 18:56	1
<b>n-Butylbenzene</b>	<b>3200</b>		33		ug/Kg	☼	07/18/13 11:42	07/18/13 18:18	1
<b>1,2,4-Trimethylbenzene</b>	<b>4800</b>		33		ug/Kg	☼	07/18/13 11:42	07/18/13 18:18	1
<b>o-Xylene</b>	<b>820</b>		33		ug/Kg	☼	07/18/13 11:42	07/18/13 18:18	1
<b>Naphthalene</b>	<b>3800</b>		33		ug/Kg	☼	07/18/13 11:42	07/18/13 18:18	1
<b>1,3,5-Trimethylbenzene</b>	<b>1400</b>		33		ug/Kg	☼	07/18/13 11:42	07/18/13 18:18	1
<b>m-Xylene &amp; p-Xylene</b>	<b>1000</b>		33		ug/Kg	☼	07/18/13 11:42	07/18/13 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120	07/13/13 13:30	07/16/13 18:56	1
4-Bromofluorobenzene (Surr)	103		70 - 120	07/18/13 11:42	07/18/13 18:18	1
Ethylbenzene-d10	106		70 - 120	07/13/13 13:30	07/16/13 18:56	1
Ethylbenzene-d10	113		70 - 120	07/18/13 11:42	07/18/13 18:18	1
Fluorobenzene (Surr)	101		80 - 120	07/13/13 13:30	07/16/13 18:56	1
Fluorobenzene (Surr)	95		80 - 120	07/18/13 11:42	07/18/13 18:18	1
Toluene-d8 (Surr)	101		80 - 120	07/13/13 13:30	07/16/13 18:56	1
Toluene-d8 (Surr)	99		80 - 120	07/18/13 11:42	07/18/13 18:18	1
Trifluorotoluene (Surr)	88		65 - 140	07/13/13 13:30	07/16/13 18:56	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>150</b>		3.3		mg/Kg	☼	07/15/13 10:38	07/17/13 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150	07/15/13 10:38	07/17/13 15:12	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>91</b>	<b>Y</b>	25		mg/Kg	☼	07/15/13 13:50	07/17/13 14:29	1
Motor Oil (>C24-C36)	ND		50		mg/Kg	☼	07/15/13 13:50	07/17/13 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150	07/15/13 13:50	07/17/13 14:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>97</b>		0.10		%			07/17/13 08:58	1
<b>Percent Moisture</b>	<b>2.7</b>		0.10		%			07/17/13 08:58	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-25'**

**Lab Sample ID: 580-39338-7**

**Date Collected: 07/12/13 10:50**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 94.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>18000</b>		3500		ug/Kg	☼	07/17/13 07:45	07/17/13 16:44	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	104		70 - 120				07/17/13 07:45	07/17/13 16:44	100
Ethylbenzene-d10	104		70 - 120				07/17/13 07:45	07/17/13 16:44	100
Fluorobenzene (Surr)	95		80 - 120				07/17/13 07:45	07/17/13 16:44	100
Toluene-d8 (Surr)	98		80 - 120				07/17/13 07:45	07/17/13 16:44	100

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,1,1-Trichloroethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,1,2,2-Tetrachloroethane	ND		170		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,1,2-Trichloroethane	ND		210		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,1-Dichloroethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,1-Dichloroethene	ND		350		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,1-Dichloropropene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,2,3-Trichlorobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,2,3-Trichloropropane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,2,4-Trichlorobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,2-Dibromo-3-Chloropropane	ND		3500		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,2-Dichlorobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,2-Dichloropropane	ND		210		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>1,3,5-Trimethylbenzene</b>	<b>42000</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,3-Dichlorobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,3-Dichloropropane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
1,4-Dichlorobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
2,2-Dichloropropane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
2-Chlorotoluene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
4-Chlorotoluene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>4-Isopropyltoluene</b>	<b>1100</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Benzene	ND		280		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Bromobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Bromoform	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Bromomethane	ND		2400		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Carbon tetrachloride	ND		350		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Chlorobenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Chlorobromomethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Chlorodibromomethane	ND		350		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Chloroethane	ND		6900		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Chloroform	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Chloromethane	ND		6900		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
cis-1,2-Dichloroethene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
cis-1,3-Dichloropropene	ND		280		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Dibromomethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Dichlorobromomethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Dichlorodifluoromethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
EDB	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
EDC	ND		280		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>Ethylbenzene</b>	<b>870</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-25'**

**Lab Sample ID: 580-39338-7**

**Date Collected: 07/12/13 10:50**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 94.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>Isopropylbenzene</b>	<b>2300</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Methyl tert-butyl ether	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Methylene Chloride	ND		280		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>m-Xylene &amp; p-Xylene</b>	<b>45000</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>Naphthalene</b>	<b>23000</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>n-Butylbenzene</b>	<b>57000</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>N-Propylbenzene</b>	<b>8700</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>o-Xylene</b>	<b>30000</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
<b>sec-Butylbenzene</b>	<b>1600</b>		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Styrene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
tert-Butylbenzene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Tetrachloroethene	ND		350		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Toluene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
trans-1,2-Dichloroethene	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
trans-1,3-Dichloropropene	ND		280		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Trichloroethene	ND		280		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Trichlorofluoromethane	ND		690		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20
Vinyl chloride	ND		140		ug/Kg	☼	07/17/13 07:45	07/20/13 11:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	07/17/13 07:45	07/20/13 11:57	20
Ethylbenzene-d10	110		70 - 120	07/17/13 07:45	07/20/13 11:57	20
Fluorobenzene (Surr)	93		80 - 120	07/17/13 07:45	07/20/13 11:57	20
Toluene-d8 (Surr)	99		80 - 120	07/17/13 07:45	07/20/13 11:57	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>2100</b>		350		mg/Kg	☼	07/15/13 10:38	07/17/13 13:21	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		50 - 150	07/15/13 10:38	07/17/13 13:21	100

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>1100</b>	<b>Y</b>	25		mg/Kg	☼	07/15/13 13:50	07/17/13 14:47	1
Motor Oil (>C24-C36)	ND		49		mg/Kg	☼	07/15/13 13:50	07/17/13 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 150	07/15/13 13:50	07/17/13 14:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>95</b>		0.10		%			07/17/13 10:43	1
<b>Percent Moisture</b>	<b>5.1</b>		0.10		%			07/17/13 10:43	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-30'**

**Lab Sample ID: 580-39338-8**

**Date Collected: 07/12/13 11:05**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 95.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>19000</b>		2700		ug/Kg	☼	07/17/13 07:45	07/17/13 17:07	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 120				07/17/13 07:45	07/17/13 17:07	100
Ethylbenzene-d10	107		70 - 120				07/17/13 07:45	07/17/13 17:07	100
Fluorobenzene (Surr)	94		80 - 120				07/17/13 07:45	07/17/13 17:07	100
Toluene-d8 (Surr)	101		80 - 120				07/17/13 07:45	07/17/13 17:07	100

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,1,1-Trichloroethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,1,2,2-Tetrachloroethane	ND		140		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,1,2-Trichloroethane	ND		160		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,1-Dichloroethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,1-Dichloroethene	ND		270		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,1-Dichloropropene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,2,3-Trichlorobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,2,3-Trichloropropane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,2,4-Trichlorobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,2-Dibromo-3-Chloropropane	ND		2700		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,2-Dichlorobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,2-Dichloropropane	ND		160		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>1,3,5-Trimethylbenzene</b>	<b>54000</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,3-Dichlorobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,3-Dichloropropane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
1,4-Dichlorobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
2,2-Dichloropropane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
2-Chlorotoluene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
4-Chlorotoluene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>4-Isopropyltoluene</b>	<b>1200</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Benzene	ND		220		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Bromobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Bromoform	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Bromomethane	ND		1900		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Carbon tetrachloride	ND		270		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Chlorobenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Chlorobromomethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Chlorodibromomethane	ND		270		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Chloroethane	ND		5500		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Chloroform	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Chloromethane	ND		5500		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
cis-1,2-Dichloroethene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
cis-1,3-Dichloropropene	ND		220		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Dibromomethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Dichlorobromomethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Dichlorodifluoromethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
EDB	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
EDC	ND		220		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>Ethylbenzene</b>	<b>940</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-30'**

**Lab Sample ID: 580-39338-8**

**Date Collected: 07/12/13 11:05**

**Matrix: Solid**

**Date Received: 07/13/13 11:30**

**Percent Solids: 95.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>Isopropylbenzene</b>	<b>2900</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Methyl tert-butyl ether	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Methylene Chloride	ND		220		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>m-Xylene &amp; p-Xylene</b>	<b>97000</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>Naphthalene</b>	<b>15000</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>n-Butylbenzene</b>	<b>46000</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>N-Propylbenzene</b>	<b>6600</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>o-Xylene</b>	<b>58000</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
<b>sec-Butylbenzene</b>	<b>1800</b>		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Styrene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
tert-Butylbenzene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Tetrachloroethene	ND		270		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Toluene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
trans-1,2-Dichloroethene	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
trans-1,3-Dichloropropene	ND		220		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Trichloroethene	ND		220		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Trichlorofluoromethane	ND		550		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20
Vinyl chloride	ND		110		ug/Kg	☼	07/17/13 07:45	07/20/13 12:20	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 120	07/17/13 07:45	07/20/13 12:20	20
Ethylbenzene-d10	110		70 - 120	07/17/13 07:45	07/20/13 12:20	20
Fluorobenzene (Surr)	94		80 - 120	07/17/13 07:45	07/20/13 12:20	20
Toluene-d8 (Surr)	99		80 - 120	07/17/13 07:45	07/20/13 12:20	20

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>2200</b>		270		mg/Kg	☼	07/15/13 10:38	07/17/13 13:43	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		50 - 150	07/15/13 10:38	07/17/13 13:43	100

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>420</b>	<b>Y</b>	25		mg/Kg	☼	07/15/13 13:50	07/17/13 15:05	1
Motor Oil (>C24-C36)	ND		50		mg/Kg	☼	07/15/13 13:50	07/17/13 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		50 - 150	07/15/13 13:50	07/17/13 15:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>96</b>		0.10		%			07/17/13 10:43	1
<b>Percent Moisture</b>	<b>4.1</b>		0.10		%			07/17/13 10:43	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-140121/1-A**

**Matrix: Solid**

**Analysis Batch: 140028**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 140121**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,1-Dichloroethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,1-Dichloropropene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2,3-Trichloropropane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2-Dichloropropane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,3-Dichloropropane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
2,2-Dichloropropane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
2-Chlorotoluene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
4-Chlorotoluene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
4-Isopropyltoluene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Benzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Bromobenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Bromoform	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Bromomethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Carbon tetrachloride	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Chlorobenzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Chlorobromomethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Chlorodibromomethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Chloroethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Chloroform	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Chloromethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Dibromomethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Dichlorobromomethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Dichlorodifluoromethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
EDB	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
EDC	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Ethylbenzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Hexachlorobutadiene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Isopropylbenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Methyl tert-butyl ether	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Methylene Chloride	ND		15		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
N-Propylbenzene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
sec-Butylbenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Styrene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
tert-Butylbenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Tetrachloroethene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-140121/1-A**

**Matrix: Solid**

**Analysis Batch: 140028**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 140121**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Trichloroethene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Trichlorofluoromethane	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Vinyl chloride	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
n-Butylbenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
o-Xylene	ND		1.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
Naphthalene	ND		5.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg		07/16/13 15:05	07/16/13 15:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 120	07/16/13 15:05	07/16/13 15:51	1
Ethylbenzene-d10	102		70 - 120	07/16/13 15:05	07/16/13 15:51	1
Fluorobenzene (Surr)	101		80 - 120	07/16/13 15:05	07/16/13 15:51	1
Toluene-d8 (Surr)	93		80 - 120	07/16/13 15:05	07/16/13 15:51	1
Trifluorotoluene (Surr)	108		65 - 140	07/16/13 15:05	07/16/13 15:51	1

**Lab Sample ID: LCS 580-140121/2-A**

**Matrix: Solid**

**Analysis Batch: 140028**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 140121**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	29.9	32.6		ug/Kg		109	75 - 125
1,1,1-Trichloroethane	30.5	34.6		ug/Kg		113	70 - 135
1,1,2,2-Tetrachloroethane	29.8	30.5		ug/Kg		102	55 - 130
1,1,2-Trichloroethane	30.1	30.9		ug/Kg		103	60 - 125
1,1-Dichloroethane	30.0	33.3		ug/Kg		111	75 - 125
1,1-Dichloroethene	29.7	31.7		ug/Kg		107	65 - 135
1,1-Dichloropropene	30.1	32.1		ug/Kg		107	70 - 135
1,2,3-Trichlorobenzene	30.0	32.9		ug/Kg		110	60 - 135
1,2,3-Trichloropropane	30.1	30.7		ug/Kg		102	65 - 130
1,2,4-Trichlorobenzene	30.0	34.9		ug/Kg		116	65 - 130
1,2-Dibromo-3-Chloropropane	30.0	27.5		ug/Kg		92	40 - 135
1,2-Dichlorobenzene	30.0	32.5		ug/Kg		108	75 - 120
1,2-Dichloropropane	30.0	31.2		ug/Kg		104	70 - 120
1,3-Dichlorobenzene	30.0	34.6		ug/Kg		115	70 - 125
1,3-Dichloropropane	30.0	31.5		ug/Kg		105	75 - 125
1,4-Dichlorobenzene	30.0	32.5		ug/Kg		108	70 - 125
2,2-Dichloropropane	30.0	31.1		ug/Kg		104	65 - 135
2-Chlorotoluene	30.0	32.9		ug/Kg		109	70 - 130
4-Chlorotoluene	30.1	34.2		ug/Kg		114	75 - 125
4-Isopropyltoluene	30.0	34.0		ug/Kg		113	75 - 135
Benzene	30.0	32.5		ug/Kg		108	75 - 125
Bromobenzene	30.0	33.2		ug/Kg		110	65 - 120
Bromoform	30.3	26.5		ug/Kg		87	55 - 135

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-140121/2-A**

**Matrix: Solid**

**Analysis Batch: 140028**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 140121**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	30.0	29.1		ug/Kg		97	30 - 160
Carbon tetrachloride	30.1	32.0		ug/Kg		106	65 - 135
Chlorobenzene	30.0	31.9		ug/Kg		106	75 - 125
Chlorobromomethane	30.1	32.1		ug/Kg		107	70 - 125
Chlorodibromomethane	30.4	28.8		ug/Kg		95	65 - 130
Chloroethane	30.0	37.3		ug/Kg		125	40 - 155
Chloroform	30.0	32.4		ug/Kg		108	70 - 125
Chloromethane	30.0	30.3		ug/Kg		101	50 - 130
cis-1,2-Dichloroethene	30.0	33.7		ug/Kg		112	65 - 125
cis-1,3-Dichloropropene	29.6	29.7		ug/Kg		100	70 - 125
Dibromomethane	30.1	32.2		ug/Kg		107	75 - 130
Dichlorobromomethane	30.3	31.9		ug/Kg		105	70 - 130
Dichlorodifluoromethane	30.0	34.2		ug/Kg		114	35 - 135
EDB	30.1	30.3		ug/Kg		101	70 - 125
EDC	29.7	29.8		ug/Kg		100	70 - 135
Ethylbenzene	30.0	34.9		ug/Kg		117	75 - 125
Hexachlorobutadiene	30.1	35.6		ug/Kg		118	55 - 140
Isopropylbenzene	30.1	33.2		ug/Kg		110	75 - 130
Methyl tert-butyl ether	30.0	29.7		ug/Kg		99	65 - 125
Methylene Chloride	30.0	31.5		ug/Kg		105	55 - 140
N-Propylbenzene	30.1	35.9		ug/Kg		119	65 - 135
sec-Butylbenzene	30.0	34.5		ug/Kg		115	65 - 130
Styrene	30.1	35.8		ug/Kg		119	75 - 125
tert-Butylbenzene	30.0	37.7		ug/Kg		126	65 - 130
Tetrachloroethene	30.0	34.6		ug/Kg		116	65 - 140
Toluene	30.0	34.6		ug/Kg		115	70 - 125
trans-1,2-Dichloroethene	30.0	32.6		ug/Kg		108	65 - 135
trans-1,3-Dichloropropene	29.9	30.6		ug/Kg		102	65 - 125
Trichloroethene	29.7	32.7		ug/Kg		110	75 - 125
Trichlorofluoromethane	30.0	33.0		ug/Kg		110	25 - 185
Vinyl chloride	30.0	32.1		ug/Kg		107	60 - 125
n-Butylbenzene	30.0	36.4		ug/Kg		121	65 - 140
1,2,4-Trimethylbenzene	30.0	33.5		ug/Kg		112	65 - 135
o-Xylene	30.1	35.7		ug/Kg		119	75 - 125
Naphthalene	30.0	28.0		ug/Kg		93	40 - 125
1,3,5-Trimethylbenzene	30.0	35.9		ug/Kg		120	65 - 135
m-Xylene & p-Xylene	60.1	70.7		ug/Kg		118	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		70 - 120
Ethylbenzene-d10	99		70 - 120
Fluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	109		65 - 140

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-140121/3-A**

**Matrix: Solid**

**Analysis Batch: 140028**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 140121**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	29.9	31.8		ug/Kg		106	75 - 125	2	30	
1,1,1-Trichloroethane	30.5	33.0		ug/Kg		108	70 - 135	5	30	
1,1,2,2-Tetrachloroethane	29.8	29.9		ug/Kg		101	55 - 130	2	30	
1,1,2-Trichloroethane	30.1	30.0		ug/Kg		100	60 - 125	3	30	
1,1-Dichloroethane	30.0	29.4		ug/Kg		98	75 - 125	12	30	
1,1-Dichloroethene	29.7	29.6		ug/Kg		100	65 - 135	7	30	
1,1-Dichloropropene	30.1	30.5		ug/Kg		102	70 - 135	5	30	
1,2,3-Trichlorobenzene	30.0	32.7		ug/Kg		109	60 - 135	1	30	
1,2,3-Trichloropropane	30.1	29.7		ug/Kg		99	65 - 130	3	30	
1,2,4-Trichlorobenzene	30.0	33.9		ug/Kg		113	65 - 130	3	30	
1,2-Dibromo-3-Chloropropane	30.0	29.3		ug/Kg		98	40 - 135	6	30	
1,2-Dichlorobenzene	30.0	31.3		ug/Kg		104	75 - 120	4	30	
1,2-Dichloropropane	30.0	29.5		ug/Kg		98	70 - 120	6	30	
1,3-Dichlorobenzene	30.0	33.3		ug/Kg		111	70 - 125	4	30	
1,3-Dichloropropane	30.0	31.2		ug/Kg		104	75 - 125	1	30	
1,4-Dichlorobenzene	30.0	31.2		ug/Kg		104	70 - 125	4	30	
2,2-Dichloropropane	30.0	28.7		ug/Kg		96	65 - 135	8	30	
2-Chlorotoluene	30.0	32.5		ug/Kg		108	70 - 130	1	30	
4-Chlorotoluene	30.1	32.1		ug/Kg		107	75 - 125	6	30	
4-Isopropyltoluene	30.0	32.3		ug/Kg		108	75 - 135	5	30	
Benzene	30.0	31.2		ug/Kg		104	75 - 125	4	30	
Bromobenzene	30.0	31.8		ug/Kg		106	65 - 120	4	30	
Bromoform	30.3	26.7		ug/Kg		88	55 - 135	1	30	
Bromomethane	30.0	29.1		ug/Kg		97	30 - 160	0	30	
Carbon tetrachloride	30.1	29.8		ug/Kg		99	65 - 135	7	30	
Chlorobenzene	30.0	30.9		ug/Kg		103	75 - 125	3	30	
Chlorobromomethane	30.1	30.8		ug/Kg		102	70 - 125	4	30	
Chlorodibromomethane	30.4	28.7		ug/Kg		95	65 - 130	0	30	
Chloroethane	30.0	33.1		ug/Kg		110	40 - 155	12	30	
Chloroform	30.0	30.6		ug/Kg		102	70 - 125	6	30	
Chloromethane	30.0	31.5		ug/Kg		105	50 - 130	4	30	
cis-1,2-Dichloroethene	30.0	32.6		ug/Kg		109	65 - 125	3	30	
cis-1,3-Dichloropropene	29.6	29.2		ug/Kg		99	70 - 125	2	30	
Dibromomethane	30.1	30.8		ug/Kg		103	75 - 130	4	30	
Dichlorobromomethane	30.3	30.5		ug/Kg		100	70 - 130	5	30	
Dichlorodifluoromethane	30.0	30.2		ug/Kg		101	35 - 135	12	30	
EDB	30.1	30.3		ug/Kg		101	70 - 125	0	30	
EDC	29.7	28.9		ug/Kg		97	70 - 135	3	30	
Ethylbenzene	30.0	34.2		ug/Kg		114	75 - 125	2	30	
Hexachlorobutadiene	30.1	33.3		ug/Kg		111	55 - 140	7	30	
Isopropylbenzene	30.1	31.5		ug/Kg		105	75 - 130	5	30	
Methyl tert-butyl ether	30.0	29.1		ug/Kg		97	65 - 125	2	30	
Methylene Chloride	30.0	30.2		ug/Kg		100	55 - 140	4	30	
N-Propylbenzene	30.1	34.2		ug/Kg		114	65 - 135	5	30	
sec-Butylbenzene	30.0	32.2		ug/Kg		107	65 - 130	7	30	
Styrene	30.1	34.2		ug/Kg		114	75 - 125	4	30	
tert-Butylbenzene	30.0	28.6		ug/Kg		95	65 - 130	28	30	
Tetrachloroethene	30.0	32.4		ug/Kg		108	65 - 140	7	30	

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-140121/3-A**

**Matrix: Solid**

**Analysis Batch: 140028**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 140121**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
							RPD	Limit		
Toluene	30.0	32.3		ug/Kg		107	70 - 125	7	30	
trans-1,2-Dichloroethene	30.0	30.7		ug/Kg		102	65 - 135	6	30	
trans-1,3-Dichloropropene	29.9	29.8		ug/Kg		99	65 - 125	3	30	
Trichloroethene	29.7	30.8		ug/Kg		104	75 - 125	6	30	
Trichlorofluoromethane	30.0	31.5		ug/Kg		105	25 - 185	5	30	
Vinyl chloride	30.0	30.9		ug/Kg		103	60 - 125	4	30	
n-Butylbenzene	30.0	34.8		ug/Kg		116	65 - 140	4	30	
1,2,4-Trimethylbenzene	30.0	31.5		ug/Kg		105	65 - 135	6	30	
o-Xylene	30.1	35.0		ug/Kg		116	75 - 125	2	30	
Naphthalene	30.0	31.3		ug/Kg		104	40 - 125	11	30	
1,3,5-Trimethylbenzene	30.0	34.0		ug/Kg		113	65 - 135	5	30	
m-Xylene & p-Xylene	60.1	67.8		ug/Kg		113	80 - 125	4	30	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		70 - 120
Ethylbenzene-d10	101		70 - 120
Fluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	105		65 - 140

**Lab Sample ID: MB 580-140140/1-A**

**Matrix: Solid**

**Analysis Batch: 140159**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 140140**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,1,1-Trichloroethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,1,2,2-Tetrachloroethane	ND		10		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,1,2-Trichloroethane	ND		12		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,1-Dichloroethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,1-Dichloroethene	ND		20		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,1-Dichloropropene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2,3-Trichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2,3-Trichloropropane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2,4-Trichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2-Dibromo-3-Chloropropane	ND		200		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2-Dichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2-Dichloropropane	ND		12		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,3-Dichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,3-Dichloropropane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,4-Dichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
2,2-Dichloropropane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
2-Chlorotoluene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
4-Chlorotoluene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
4-Isopropyltoluene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Benzene	ND		16		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Bromobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Bromoform	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-140140/1-A

Matrix: Solid

Analysis Batch: 140159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 140140

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromomethane	ND		140		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Carbon tetrachloride	ND		20		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Chlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Chlorobromomethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Chlorodibromomethane	ND		20		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Chloroethane	ND		400		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Chloroform	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Chloromethane	ND		400		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
cis-1,2-Dichloroethene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
cis-1,3-Dichloropropene	ND		16		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Dibromomethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Dichlorobromomethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Dichlorodifluoromethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
EDB	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
EDC	ND		16		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Ethylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Hexachlorobutadiene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Isopropylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Methyl tert-butyl ether	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Methylene Chloride	ND		16		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
N-Propylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
sec-Butylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Styrene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
tert-Butylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Tetrachloroethene	ND		20		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Toluene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
trans-1,2-Dichloroethene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
trans-1,3-Dichloropropene	ND		16		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Trichloroethene	ND		16		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Trichlorofluoromethane	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Vinyl chloride	ND		8.0		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
n-Butylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
o-Xylene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
Naphthalene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1
m-Xylene & p-Xylene	ND		40		ug/Kg		07/17/13 07:45	07/17/13 08:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		70 - 120	07/17/13 07:45	07/17/13 08:23	1
Ethylbenzene-d10	105		70 - 120	07/17/13 07:45	07/17/13 08:23	1
Fluorobenzene (Surr)	96		80 - 120	07/17/13 07:45	07/17/13 08:23	1
Toluene-d8 (Surr)	100		80 - 120	07/17/13 07:45	07/17/13 08:23	1
Trifluorotoluene (Surr)	105		65 - 140	07/17/13 07:45	07/17/13 08:23	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-140140/1-A**

**Matrix: Solid**

**Analysis Batch: 140466**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 140140**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,1,1-Trichloroethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,1,2,2-Tetrachloroethane	ND		10		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,1,2-Trichloroethane	ND		12		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,1-Dichloroethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,1-Dichloroethene	ND		20		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,1-Dichloropropene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2,3-Trichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2,3-Trichloropropane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2,4-Trichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2-Dibromo-3-Chloropropane	ND		200		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2-Dichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2-Dichloropropane	ND		12		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,3-Dichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,3-Dichloropropane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,4-Dichlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
2,2-Dichloropropane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
2-Chlorotoluene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
4-Chlorotoluene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
4-Isopropyltoluene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Benzene	ND		16		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Bromobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Bromoform	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Bromomethane	ND		140		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Carbon tetrachloride	ND		20		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Chlorobenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Chlorobromomethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Chlorodibromomethane	ND		20		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Chloroethane	ND		400		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Chloroform	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Chloromethane	ND		400		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
cis-1,2-Dichloroethene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
cis-1,3-Dichloropropene	ND		16		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Dibromomethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Dichlorobromomethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Dichlorodifluoromethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
EDB	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
EDC	ND		16		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Ethylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Hexachlorobutadiene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Isopropylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Methyl tert-butyl ether	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Methylene Chloride	ND		16		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
N-Propylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
sec-Butylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Styrene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
tert-Butylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Tetrachloroethene	ND		20		ug/Kg		07/17/13 07:45	07/20/13 08:10	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-140140/1-A**  
**Matrix: Solid**  
**Analysis Batch: 140466**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 140140**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
trans-1,2-Dichloroethene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
trans-1,3-Dichloropropene	ND		16		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Trichloroethene	ND		16		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Trichlorofluoromethane	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Vinyl chloride	ND		8.0		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
n-Butylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
o-Xylene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
Naphthalene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1
m-Xylene & p-Xylene	ND		40		ug/Kg		07/17/13 07:45	07/20/13 08:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 120	07/17/13 07:45	07/20/13 08:10	1
Ethylbenzene-d10	102		70 - 120	07/17/13 07:45	07/20/13 08:10	1
Fluorobenzene (Surr)	92		80 - 120	07/17/13 07:45	07/20/13 08:10	1
Toluene-d8 (Surr)	98		80 - 120	07/17/13 07:45	07/20/13 08:10	1
Trifluorotoluene (Surr)	103		65 - 140	07/17/13 07:45	07/20/13 08:10	1

**Lab Sample ID: LCS 580-140140/2-A**  
**Matrix: Solid**  
**Analysis Batch: 140159**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 140140**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	797	761		ug/Kg		96	75 - 125
1,1,1-Trichloroethane	814	674		ug/Kg		83	70 - 135
1,1,2,2-Tetrachloroethane	794	846		ug/Kg		107	55 - 130
1,1,2-Trichloroethane	802	823		ug/Kg		103	60 - 125
1,1-Dichloroethane	800	693		ug/Kg		87	75 - 125
1,1-Dichloroethene	791	597		ug/Kg		75	65 - 135
1,1-Dichloropropene	802	762		ug/Kg		95	70 - 135
1,2,3-Trichlorobenzene	800	728		ug/Kg		91	60 - 135
1,2,3-Trichloropropane	802	855		ug/Kg		107	65 - 130
1,2,4-Trichlorobenzene	800	736		ug/Kg		92	65 - 130
1,2-Dibromo-3-Chloropropane	801	689		ug/Kg		86	40 - 135
1,2-Dichlorobenzene	800	765		ug/Kg		96	75 - 120
1,2-Dichloropropane	800	982	*	ug/Kg		123	70 - 120
1,3-Dichlorobenzene	801	768		ug/Kg		96	70 - 125
1,3-Dichloropropane	801	804		ug/Kg		100	75 - 125
1,4-Dichlorobenzene	801	766		ug/Kg		96	70 - 125
2,2-Dichloropropane	799	579		ug/Kg		72	65 - 135
2-Chlorotoluene	801	815		ug/Kg		102	70 - 130
4-Chlorotoluene	802	814		ug/Kg		101	75 - 125
4-Isopropyltoluene	800	792		ug/Kg		99	75 - 135
Benzene	799	758		ug/Kg		95	75 - 125
Bromobenzene	801	813		ug/Kg		102	65 - 120
Bromoform	808	751		ug/Kg		93	55 - 135

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-140140/2-A**

**Matrix: Solid**

**Analysis Batch: 140159**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 140140**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	801	541		ug/Kg		67	30 - 160
Carbon tetrachloride	803	849		ug/Kg		106	65 - 135
Chlorobenzene	800	836		ug/Kg		105	75 - 125
Chlorobromomethane	802	778		ug/Kg		97	70 - 125
Chlorodibromomethane	810	759		ug/Kg		94	65 - 130
Chloroethane	800	615		ug/Kg		77	40 - 155
Chloroform	800	761		ug/Kg		95	70 - 125
Chloromethane	799	611		ug/Kg		76	50 - 130
cis-1,2-Dichloroethene	801	691		ug/Kg		86	65 - 125
cis-1,3-Dichloropropene	790	743		ug/Kg		94	70 - 125
Dibromomethane	802	794		ug/Kg		99	75 - 130
Dichlorobromomethane	809	757		ug/Kg		94	70 - 130
Dichlorodifluoromethane	800	529		ug/Kg		66	35 - 135
EDB	802	855		ug/Kg		107	70 - 125
EDC	793	704		ug/Kg		89	70 - 135
Ethylbenzene	800	842		ug/Kg		105	75 - 125
Hexachlorobutadiene	802	736		ug/Kg		92	55 - 140
Isopropylbenzene	802	833		ug/Kg		104	75 - 130
Methyl tert-butyl ether	800	618		ug/Kg		77	65 - 125
Methylene Chloride	800	593		ug/Kg		74	55 - 140
N-Propylbenzene	802	859		ug/Kg		107	65 - 135
sec-Butylbenzene	800	798		ug/Kg		100	65 - 130
Styrene	802	863		ug/Kg		108	75 - 125
tert-Butylbenzene	801	803		ug/Kg		100	65 - 130
Tetrachloroethene	800	725		ug/Kg		91	65 - 140
Toluene	801	780		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	801	650		ug/Kg		81	65 - 135
trans-1,3-Dichloropropene	798	761		ug/Kg		95	65 - 125
Trichloroethene	793	783		ug/Kg		99	75 - 125
Trichlorofluoromethane	799	514		ug/Kg		64	25 - 185
Vinyl chloride	801	649		ug/Kg		81	60 - 125
n-Butylbenzene	800	791		ug/Kg		99	65 - 140
1,2,4-Trimethylbenzene	800	808		ug/Kg		101	65 - 135
o-Xylene	802	813		ug/Kg		101	75 - 125
Naphthalene	800	785		ug/Kg		98	40 - 125
1,3,5-Trimethylbenzene	799	798		ug/Kg		100	65 - 135
m-Xylene & p-Xylene	1600	1690		ug/Kg		105	80 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 120
Ethylbenzene-d10	106		70 - 120
Fluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Trifluorotoluene (Surr)	99		65 - 140

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-140313/1-A**

**Matrix: Solid**

**Analysis Batch: 140361**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 140313**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		40		ug/Kg		07/18/13 11:42	07/18/13 12:31	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		07/18/13 11:42	07/18/13 12:31	1
o-Xylene	ND		40		ug/Kg		07/18/13 11:42	07/18/13 12:31	1
Naphthalene	ND		40		ug/Kg		07/18/13 11:42	07/18/13 12:31	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		07/18/13 11:42	07/18/13 12:31	1
m-Xylene & p-Xylene	ND		40		ug/Kg		07/18/13 11:42	07/18/13 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 120	07/18/13 11:42	07/18/13 12:31	1
Ethylbenzene-d10	105		70 - 120	07/18/13 11:42	07/18/13 12:31	1
Fluorobenzene (Surr)	95		80 - 120	07/18/13 11:42	07/18/13 12:31	1
Toluene-d8 (Surr)	101		80 - 120	07/18/13 11:42	07/18/13 12:31	1
Trifluorotoluene (Surr)	103		65 - 140	07/18/13 11:42	07/18/13 12:31	1

**Lab Sample ID: LCS 580-140313/2-A**

**Matrix: Solid**

**Analysis Batch: 140361**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 140313**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Butylbenzene	800	758		ug/Kg		95	65 - 140
1,2,4-Trimethylbenzene	800	771		ug/Kg		96	65 - 135
o-Xylene	802	790		ug/Kg		99	75 - 125
Naphthalene	800	696		ug/Kg		87	40 - 125
1,3,5-Trimethylbenzene	799	771		ug/Kg		96	65 - 135
m-Xylene & p-Xylene	1600	1660		ug/Kg		103	80 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 120
Ethylbenzene-d10	110		70 - 120
Fluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Trifluorotoluene (Surr)	97		65 - 140

**Lab Sample ID: LCSD 580-140313/3-A**

**Matrix: Solid**

**Analysis Batch: 140361**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 140313**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	800	790		ug/Kg		99	65 - 140	4	30
1,2,4-Trimethylbenzene	800	791		ug/Kg		99	65 - 135	3	30
o-Xylene	802	791		ug/Kg		99	75 - 125	0	30
Naphthalene	800	768		ug/Kg		96	40 - 125	10	30
1,3,5-Trimethylbenzene	799	793		ug/Kg		99	65 - 135	3	30
m-Xylene & p-Xylene	1600	1660		ug/Kg		104	80 - 125	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 120

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** LCSD 580-140313/3-A  
**Matrix:** Solid  
**Analysis Batch:** 140361

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 140313

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Ethylbenzene-d10	109		70 - 120
Fluorobenzene (Surr)	95		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Trifluorotoluene (Surr)	98		65 - 140

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID:** MB 580-139973/1-A  
**Matrix:** Solid  
**Analysis Batch:** 139963

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 139973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		07/15/13 10:38	07/15/13 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		50 - 150				07/15/13 10:38	07/15/13 11:46	1
Trifluorotoluene (Surr)	118		50 - 150				07/15/13 10:38	07/15/13 11:46	1

**Lab Sample ID:** MB 580-139973/1-A  
**Matrix:** Solid  
**Analysis Batch:** 140179

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 139973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		07/15/13 10:38	07/17/13 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		50 - 150				07/15/13 10:38	07/17/13 11:52	1
Trifluorotoluene (Surr)	119		50 - 150				07/15/13 10:38	07/17/13 11:52	1

**Lab Sample ID:** LCS 580-139973/2-A  
**Matrix:** Solid  
**Analysis Batch:** 139963

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 139973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	34.5		mg/Kg		86	68 - 120
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		50 - 150				
Trifluorotoluene (Surr)	105		50 - 150				

**Lab Sample ID:** LCS 580-139973/2-A  
**Matrix:** Solid  
**Analysis Batch:** 140179

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 139973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	37.5		mg/Kg		94	68 - 120

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 580-139973/2-A**  
**Matrix: Solid**  
**Analysis Batch: 140179**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 139973**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		50 - 150
Trifluorotoluene (Surr)	111		50 - 150

**Lab Sample ID: LCSD 580-139973/3-A**  
**Matrix: Solid**  
**Analysis Batch: 139963**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 139973**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD	Limit
Gasoline	40.0	35.9		mg/Kg		90	68 - 120	4		25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		50 - 150
Trifluorotoluene (Surr)	108		50 - 150

**Lab Sample ID: LCSD 580-139973/3-A**  
**Matrix: Solid**  
**Analysis Batch: 140179**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 139973**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD	Limit
Gasoline	40.0	38.3		mg/Kg		96	68 - 120	2		25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		50 - 150
Trifluorotoluene (Surr)	111		50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-139984/1-A**  
**Matrix: Solid**  
**Analysis Batch: 140066**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 139984**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg		07/15/13 11:55	07/16/13 15:01	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		07/15/13 11:55	07/16/13 15:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	07/15/13 11:55	07/16/13 15:01	1

**Lab Sample ID: LCS 580-139984/2-A**  
**Matrix: Solid**  
**Analysis Batch: 140066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 139984**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Motor Oil (>C24-C36)	500	527		mg/Kg		105	64 - 127

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 580-139984/2-A**  
**Matrix: Solid**  
**Analysis Batch: 140066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 139984**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	96		50 - 150

**Lab Sample ID: LCSD 580-139984/3-A**  
**Matrix: Solid**  
**Analysis Batch: 140066**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 139984**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>Limit</i>
#2 Diesel (C10-C24)	500	504		mg/Kg		101	70 - 125	3	16
Motor Oil (>C24-C36)	500	541		mg/Kg		108	64 - 127	3	17

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	89		50 - 150

**Lab Sample ID: 580-39338-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 140155**

**Client Sample ID: B2-10'**  
**Prep Type: Total/NA**  
**Prep Batch: 139984**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
#2 Diesel (C10-C24)	ND		483	484		mg/Kg	☼	100	70 - 125
Motor Oil (>C24-C36)	ND		483	526		mg/Kg	☼	107	64 - 127

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	94		50 - 150

**Lab Sample ID: 580-39338-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 140155**

**Client Sample ID: B2-10'**  
**Prep Type: Total/NA**  
**Prep Batch: 139984**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>Limit</i>
#2 Diesel (C10-C24)	ND		489	498		mg/Kg	☼	102	70 - 125	3	16
Motor Oil (>C24-C36)	ND		489	543		mg/Kg	☼	109	64 - 127	3	17

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>o-Terphenyl</i>	96		50 - 150

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Client Sample ID: B2-10'

Date Collected: 07/11/13 15:50

Date Received: 07/13/13 11:30

## Lab Sample ID: 580-39338-1

Matrix: Solid

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140121	07/13/13 13:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	140028	07/16/13 17:47	JMB	TAL SEA
Total/NA	Prep	5035			139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	139963	07/15/13 18:02	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:49	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 12:06	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 08:58	WW	TAL SEA

## Client Sample ID: B2-15'

Date Collected: 07/11/13 16:03

Date Received: 07/13/13 11:30

## Lab Sample ID: 580-39338-2

Matrix: Solid

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140121	07/13/13 13:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	140028	07/16/13 18:10	JMB	TAL SEA
Total/NA	Prep	5035			139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	139963	07/15/13 18:24	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 12:42	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 08:58	WW	TAL SEA

## Client Sample ID: B2-20'

Date Collected: 07/11/13 16:21

Date Received: 07/13/13 11:30

## Lab Sample ID: 580-39338-3

Matrix: Solid

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140121	07/13/13 13:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	140028	07/16/13 18:33	JMB	TAL SEA
Total/NA	Prep	5035			139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	139963	07/15/13 18:46	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 13:00	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 08:58	WW	TAL SEA

## Client Sample ID: B3-10'

Date Collected: 07/12/13 08:43

Date Received: 07/13/13 11:30

## Lab Sample ID: 580-39338-4

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B		20	140159	07/17/13 15:58	MMH	TAL SEA
Total/NA	Prep	5035	DL		139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx	DL	100	140179	07/17/13 12:59	NMR	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Client Sample ID: B3-10'

Lab Sample ID: 580-39338-4

Date Collected: 07/12/13 08:43

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 13:53	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 08:58	WW	TAL SEA

## Client Sample ID: B3-15'

Lab Sample ID: 580-39338-5

Date Collected: 07/12/13 09:35

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B		10	140159	07/17/13 16:21	MMH	TAL SEA
Total/NA	Prep	5035	RA		140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B	RA	1	140466	07/20/13 12:43	MMH	TAL SEA
Total/NA	Prep	5035	RA		139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx	RA	1	140179	07/17/13 14:50	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 14:11	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 08:58	WW	TAL SEA

## Client Sample ID: B3-20'

Lab Sample ID: 580-39338-6

Date Collected: 07/12/13 09:50

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140121	07/13/13 13:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	140028	07/16/13 18:56	JMB	TAL SEA
Total/NA	Prep	5035			140313	07/18/13 11:42	NMR	TAL SEA
Total/NA	Analysis	8260B		1	140361	07/18/13 18:18	MMH	TAL SEA
Total/NA	Prep	5035	RA		139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx	RA	1	140179	07/17/13 15:12	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 14:29	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 08:58	WW	TAL SEA

## Client Sample ID: B3-25'

Lab Sample ID: 580-39338-7

Date Collected: 07/12/13 10:50

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B		100	140159	07/17/13 16:44	MMH	TAL SEA
Total/NA	Prep	5035	RA		140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B	RA	20	140466	07/20/13 11:57	MMH	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

**Client Sample ID: B3-25'**

**Lab Sample ID: 580-39338-7**

Date Collected: 07/12/13 10:50

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx	DL	100	140179	07/17/13 13:21	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 14:47	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 10:43	WW	TAL SEA

**Client Sample ID: B3-30'**

**Lab Sample ID: 580-39338-8**

Date Collected: 07/12/13 11:05

Matrix: Solid

Date Received: 07/13/13 11:30

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B		100	140159	07/17/13 17:07	MMH	TAL SEA
Total/NA	Prep	5035	RA		140140	07/17/13 07:45	MMH	TAL SEA
Total/NA	Analysis	8260B	RA	20	140466	07/20/13 12:20	MMH	TAL SEA
Total/NA	Prep	5035	DL		139973	07/15/13 10:38	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx	DL	100	140179	07/17/13 13:43	NMR	TAL SEA
Total/NA	Prep	3550B			139984	07/15/13 13:50	WW	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	140155	07/17/13 15:05	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	140160	07/17/13 10:43	WW	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

## Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: CK 6049 Kennewick Wa

TestAmerica Job ID: 580-39338-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-39338-1	B2-10'	Solid	07/11/13 15:50	07/13/13 11:30
580-39338-2	B2-15'	Solid	07/11/13 16:03	07/13/13 11:30
580-39338-3	B2-20'	Solid	07/11/13 16:21	07/13/13 11:30
580-39338-4	B3-10'	Solid	07/12/13 08:43	07/13/13 11:30
580-39338-5	B3-15'	Solid	07/12/13 09:35	07/13/13 11:30
580-39338-6	B3-20'	Solid	07/12/13 09:50	07/13/13 11:30
580-39338-7	B3-25'	Solid	07/12/13 10:50	07/13/13 11:30
580-39338-8	B3-30'	Solid	07/12/13 11:05	07/13/13 11:30



Client: **Blaes Environmental**

Client Contact: **Ben Blaes**

Date: \_\_\_\_\_

Chain of Custody Number: **19611**

7/22/2013

Address: **45E. Monterey Way**

Telephone Number (Area Code)/Fax Number: **602-228-8707**

Lab Number: **39338**

Page **1** of **1**

City: **Phoenix** State: **AZ** Zip Code: **85012**

Sampler: **TC**

Lab Contact: \_\_\_\_\_

Analysis (Attach list if more space is needed)

Project Name and Location (State): **CK 6049 Kennelwick Wa.**

Billing Contact: \_\_\_\_\_

Matrix: \_\_\_\_\_

Containers & Preservatives: **82CO B**

Special Instructions/Conditions of Receipt

Page 40 of 41

Contract/Purchase Order/Quote No. \_\_\_\_\_

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Air \_\_\_\_\_ Aqueous \_\_\_\_\_ Sed. \_\_\_\_\_ Soil \_\_\_\_\_

Unpres. \_\_\_\_\_ H2SO4 \_\_\_\_\_ HNO3 \_\_\_\_\_ HCl \_\_\_\_\_ NaOH \_\_\_\_\_ ZnAc/NaOH \_\_\_\_\_

82CO B

XX

1- B2-10

7/11/13

X

XX

2- B2-15

L

L

L

3- B2-20

L

L

L

4- B3-10

7/12/13

L

L

5- B3-15

L

L

L

6- B3-20

L

L

L

7- B3-25

L

L

L

8- B3-30

L

L

L

9- Trip Blank

7/11/13

DUO TRIPBLANK

L



580-39338 Chain of Custody

Cooler/TB Dig/IR cor Q.D unqs  
Cooler Desc @ Lab  
Wet Packs Packing bubble  
W/025 Client drop

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return to Client  Archive For \_\_\_\_\_

Months: \_\_\_\_\_ (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days

10 Days  15 Days  Other \_\_\_\_\_

QC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: **Sign/Print** **Andrew Gray** Date: **7/13/13** Time: **3:13**

1. Received By: **Sign/Print** **Ben Blaes** Date: **7/12/13** Time: **3:13**

2. Relinquished By: **Sign/Print** **Ben Blaes** Date: **7/13/13** Time: **11:30**

2. Received By: **Sign/Print** **Ben Blaes** Date: **7/13/13** Time: **11:30**

3. Relinquished By: **Sign/Print** \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Received By: **Sign/Print** \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-39338-1

**Login Number: 39338**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Balles, Racheal M**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-40407-1

Client Project/Site: CK-6049 Kennewick, WA

For:

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
10/7/2013 4:47:39 PM

Pam Johnson, Project Manager I  
(253)922-2310 x112  
[pamr.johnson@testamericainc.com](mailto:pamr.johnson@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

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## Job ID: 580-40407-1

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### Laboratory: TestAmerica Seattle

#### Narrative

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##### Receipt

The samples were received on 9/21/2013 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

##### GC/MS VOA - Method 8260B

In analytical batch 145595, sample MW1-88' (580-40407-3) was scheduled for medium level analysis due to the target compound 1,2,4-Trimethylbenzene exceeding the calibration range of the low level analysis. The data have been qualified "E" and reported.

The sample MW1-98' (580-40407-4) was initially analyzed in analytical batch 145595. Due to the possibility of carryover from a previously analyzed sample for the target compound 1,2,4-Trimethylbenzene the sample was reanalyzed in analytical batch 145908 confirming the hit in the sample. The original analysis is reported as the primary result.

##### GC/MS VOA - Method NWTPH-Gx

In analytical batch 146087, the following sample MW1-78' (580-40407-2) was diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

##### GC Semi VOA - Method NWTPH-Dx

In analytical batch 145880, for the following sample MW1-78' (580-40407-2) from preparation batch 145568, the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely resembles a complex mixture of a weathered gasoline product and possible biogenic interference.

In analytical batch 145880, for the following sample MW1-88' (580-40407-3) from preparation batch 145568, the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely resembles a complex mixture of heavily weathered/degraded diesel fuel and possible biogenic interference.

The affected analyte range has been qualified "Y" and reported.

No other analytical or quality issues were noted.

##### General Chemistry

No analytical or quality issues were noted.

##### Organic Prep

No analytical or quality issues were noted.



# Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

### GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-68'**

**Lab Sample ID: 580-40407-1**

**Date Collected: 09/20/13 08:15**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 98.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,1,1-Trichloroethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,1,2-Trichloroethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,1-Dichloroethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,1-Dichloroethene	ND		4.9		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,1-Dichloropropene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,2,3-Trichloropropane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
<b>1,2,4-Trimethylbenzene</b>	<b>2.0</b>		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,2-Dichlorobenzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,2-Dichloropropane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,3-Dichlorobenzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,3-Dichloropropane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
1,4-Dichlorobenzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
2,2-Dichloropropane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
2-Chlorotoluene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
4-Chlorotoluene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
4-Isopropyltoluene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Benzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Bromobenzene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Bromoform	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Bromomethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Carbon tetrachloride	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Chlorobenzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Chlorobromomethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Chlorodibromomethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Chloroethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Chloroform	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Chloromethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
cis-1,2-Dichloroethene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
cis-1,3-Dichloropropene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Dibromomethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Dichlorobromomethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Dichlorodifluoromethane	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
EDB	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
EDC	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Ethylbenzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Hexachlorobutadiene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Isopropylbenzene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Methyl tert-butyl ether	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
Methylene Chloride	ND		15		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
<b>Naphthalene</b>	<b>56</b>		4.9		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
n-Butylbenzene	ND		2.0		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1
N-Propylbenzene	ND		0.99		ug/Kg	*	09/21/13 09:30	09/23/13 19:08	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-68'**

**Lab Sample ID: 580-40407-1**

**Date Collected: 09/20/13 08:15**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 98.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
sec-Butylbenzene	ND		2.0		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
Styrene	ND		2.0		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
tert-Butylbenzene	ND		2.0		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
Tetrachloroethene	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
Toluene	ND		2.0		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
trans-1,2-Dichloroethene	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
trans-1,3-Dichloropropene	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
Trichloroethene	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
Trichlorofluoromethane	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1
Vinyl chloride	ND		0.99		ug/Kg	☼	09/21/13 09:30	09/23/13 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 120	09/21/13 09:30	09/23/13 19:08	1
Ethylbenzene-d10	92		70 - 120	09/21/13 09:30	09/23/13 19:08	1
Fluorobenzene (Surr)	98		80 - 120	09/21/13 09:30	09/23/13 19:08	1
Toluene-d8 (Surr)	91		80 - 120	09/21/13 09:30	09/23/13 19:08	1
Trifluorotoluene (Surr)	97		65 - 140	09/21/13 09:30	09/23/13 19:08	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	6.2		4.2		mg/Kg	☼	09/28/13 15:43	09/29/13 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	09/28/13 15:43	09/29/13 17:48	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg	☼	09/23/13 10:58	09/26/13 19:42	1
Motor Oil (>C24-C36)	ND		49		mg/Kg	☼	09/23/13 10:58	09/26/13 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	09/23/13 10:58	09/26/13 19:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	98		0.10		%			09/24/13 16:08	1
Percent Moisture	1.6		0.10		%			09/24/13 16:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-78'**

**Lab Sample ID: 580-40407-2**

**Date Collected: 09/20/13 09:55**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 85.9**

**Method: 8260B/5035 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,1,1-Trichloroethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,1,1,2,2-Tetrachloroethane	ND		7.5		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,1,1,2-Trichloroethane	ND		9.0		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,1-Dichloroethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,1-Dichloroethene	ND		15		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,1-Dichloropropene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,2,3-Trichlorobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,2,3-Trichloropropane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,2,4-Trichlorobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,2-Dibromo-3-Chloropropane	ND		150		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,2-Dichlorobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,2-Dichloropropane	ND		9.0		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,3-Dichlorobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,3-Dichloropropane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
1,4-Dichlorobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
2,2-Dichloropropane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
2-Chlorotoluene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
4-Chlorotoluene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>4-Isopropyltoluene</b>	<b>370</b>		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Benzene	ND		12		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Bromobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Bromoform	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Bromomethane	ND		110		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Carbon tetrachloride	ND		15		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Chlorobenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Chlorobromomethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Chlorodibromomethane	ND		15		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Chloroethane	ND		300		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Chloroform	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Chloromethane	ND		300		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
cis-1,2-Dichloroethene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
cis-1,3-Dichloropropene	ND		12		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Dibromomethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Dichlorobromomethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Dichlorodifluoromethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
EDB	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
EDC	ND		12		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Hexachlorobutadiene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>Isopropylbenzene</b>	<b>220</b>		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Methyl tert-butyl ether	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>Methylene Chloride</b>	<b>73</b>		12		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>Naphthalene</b>	<b>4400</b>		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
n-Butylbenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>N-Propylbenzene</b>	<b>340</b>		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>o-Xylene</b>	<b>3300</b>		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
<b>sec-Butylbenzene</b>	<b>430</b>		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Styrene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
tert-Butylbenzene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-78'**

**Lab Sample ID: 580-40407-2**

**Date Collected: 09/20/13 09:55**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 85.9**

**Method: 8260B/5035 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		15		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Toluene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
trans-1,2-Dichloroethene	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
trans-1,3-Dichloropropene	ND		12		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Trichloroethene	ND		12		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Trichlorofluoromethane	ND		30		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1
Vinyl chloride	ND		6.0		ug/Kg	☼	09/24/13 09:33	09/24/13 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 120	09/24/13 09:33	09/24/13 18:10	1
Ethylbenzene-d10	102		70 - 120	09/24/13 09:33	09/24/13 18:10	1
Fluorobenzene (Surr)	103		80 - 120	09/24/13 09:33	09/24/13 18:10	1
Toluene-d8 (Surr)	99		80 - 120	09/24/13 09:33	09/24/13 18:10	1

**Method: 8260B/5035 - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	30000		300		ug/Kg	☼	09/24/13 09:33	09/26/13 10:41	10
1,3,5-Trimethylbenzene	10000		300		ug/Kg	☼	09/24/13 09:33	09/26/13 10:41	10
Ethylbenzene	9100		300		ug/Kg	☼	09/24/13 09:33	09/26/13 10:41	10
m-Xylene & p-Xylene	8700		300		ug/Kg	☼	09/24/13 09:33	09/26/13 10:41	10

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	500		30		mg/Kg	☼	09/28/13 15:43	09/29/13 18:09	10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		50 - 150	09/28/13 15:43	09/29/13 18:09	10			

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	53	Y	27		mg/Kg	☼	09/23/13 10:58	09/26/13 20:13	1
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/23/13 10:58	09/26/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	76		50 - 150	09/23/13 10:58	09/26/13 20:13	1			

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10		%			09/24/13 16:08	1
Percent Moisture	14		0.10		%			09/24/13 16:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-88'**

**Lab Sample ID: 580-40407-3**

**Date Collected: 09/20/13 11:11**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 89.4**

**Method: 8260B/5035 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>310</b>		38		ug/Kg	☼	10/01/13 08:06	10/01/13 21:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	84		70 - 120				10/01/13 08:06	10/01/13 21:10	1
Ethylbenzene-d10	101		70 - 120				10/01/13 08:06	10/01/13 21:10	1
Fluorobenzene (Surr)	102		80 - 120				10/01/13 08:06	10/01/13 21:10	1
Toluene-d8 (Surr)	97		80 - 120				10/01/13 08:06	10/01/13 21:10	1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,1,1-Trichloroethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,1,2,2-Tetrachloroethane	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,1,2-Trichloroethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,1-Dichloroethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,1-Dichloroethene	ND		3.9		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,1-Dichloropropene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,2,3-Trichlorobenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,2,3-Trichloropropane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,2,4-Trichlorobenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>1,2,4-Trimethylbenzene</b>	<b>180</b>	<b>E</b>	1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,2-Dibromo-3-Chloropropane	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,2-Dichlorobenzene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,2-Dichloropropane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>1,3,5-Trimethylbenzene</b>	<b>63</b>		3.9		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,3-Dichlorobenzene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,3-Dichloropropane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
1,4-Dichlorobenzene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
2,2-Dichloropropane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
2-Chlorotoluene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
4-Chlorotoluene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>4-Isopropyltoluene</b>	<b>1.9</b>		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Benzene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Bromobenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Bromoform	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Bromomethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Carbon tetrachloride	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Chlorobenzene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Chlorobromomethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Chlorodibromomethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Chloroethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Chloroform	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Chloromethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
cis-1,2-Dichloroethene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
cis-1,3-Dichloropropene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Dibromomethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Dichlorobromomethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Dichlorodifluoromethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
EDB	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
EDC	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-88'**

**Lab Sample ID: 580-40407-3**

**Date Collected: 09/20/13 11:11**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 89.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Hexachlorobutadiene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Isopropylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Methyl tert-butyl ether	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Methylene Chloride	ND		12		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>m-Xylene &amp; p-Xylene</b>	<b>41</b>		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>Naphthalene</b>	<b>49</b>		3.9		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
n-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>N-Propylbenzene</b>	<b>3.8</b>		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
<b>o-Xylene</b>	<b>39</b>		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
sec-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Styrene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
tert-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Tetrachloroethene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Toluene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
trans-1,2-Dichloroethene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
trans-1,3-Dichloropropene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Trichloroethene	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Trichlorofluoromethane	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1
Vinyl chloride	ND		0.78		ug/Kg	☼	09/21/13 09:30	09/23/13 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 120	09/21/13 09:30	09/23/13 19:32	1
Ethylbenzene-d10	104		70 - 120	09/21/13 09:30	09/23/13 19:32	1
Fluorobenzene (Surr)	98		80 - 120	09/21/13 09:30	09/23/13 19:32	1
Toluene-d8 (Surr)	90		80 - 120	09/21/13 09:30	09/23/13 19:32	1
Trifluorotoluene (Surr)	93		65 - 140	09/21/13 09:30	09/23/13 19:32	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>12</b>		3.8		mg/Kg	☼	09/28/13 15:43	09/29/13 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150	09/28/13 15:43	09/29/13 18:31	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>33</b>	<b>Y</b>	27		mg/Kg	☼	09/23/13 10:58	09/26/13 20:29	1
Motor Oil (>C24-C36)	ND		54		mg/Kg	☼	09/23/13 10:58	09/26/13 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150	09/23/13 10:58	09/26/13 20:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>89</b>		0.10		%			09/24/13 16:08	1
<b>Percent Moisture</b>	<b>11</b>		0.10		%			09/24/13 16:08	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-98'**

**Lab Sample ID: 580-40407-4**

**Date Collected: 09/20/13 12:17**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 93.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,1,1-Trichloroethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,1,2-Trichloroethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,1-Dichloroethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,1-Dichloroethene	ND		4.1		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,1-Dichloropropene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,2,3-Trichlorobenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,2,3-Trichloropropane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
<b>1,2,4-Trimethylbenzene</b>	<b>2.4</b>		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,2-Dibromo-3-Chloropropane	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,2-Dichlorobenzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,2-Dichloropropane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,3,5-Trimethylbenzene	ND		4.1		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,3-Dichlorobenzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,3-Dichloropropane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
1,4-Dichlorobenzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
2,2-Dichloropropane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
2-Chlorotoluene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
4-Chlorotoluene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
4-Isopropyltoluene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Benzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Bromobenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Bromoform	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Bromomethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Carbon tetrachloride	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Chlorobenzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Chlorobromomethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Chlorodibromomethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Chloroethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Chloroform	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Chloromethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
cis-1,2-Dichloroethene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
cis-1,3-Dichloropropene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Dibromomethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Dichlorobromomethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Dichlorodifluoromethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
EDB	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
EDC	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Ethylbenzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Hexachlorobutadiene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Isopropylbenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Methyl tert-butyl ether	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Methylene Chloride	ND		12		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
m-Xylene & p-Xylene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Naphthalene	ND		4.1		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
n-Butylbenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
N-Propylbenzene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-98'**

**Lab Sample ID: 580-40407-4**

**Date Collected: 09/20/13 12:17**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 93.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
sec-Butylbenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Styrene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
tert-Butylbenzene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Tetrachloroethene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Toluene	ND		1.7		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
trans-1,2-Dichloroethene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
trans-1,3-Dichloropropene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Trichloroethene	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Trichlorofluoromethane	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1
Vinyl chloride	ND		0.83		ug/Kg	☼	09/21/13 09:30	09/23/13 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 120	09/21/13 09:30	09/23/13 19:55	1
Ethylbenzene-d10	102		70 - 120	09/21/13 09:30	09/23/13 19:55	1
Fluorobenzene (Surr)	98		80 - 120	09/21/13 09:30	09/23/13 19:55	1
Toluene-d8 (Surr)	93		80 - 120	09/21/13 09:30	09/23/13 19:55	1
Trifluorotoluene (Surr)	93		65 - 140	09/21/13 09:30	09/23/13 19:55	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.6		mg/Kg	☼	09/28/13 15:43	09/29/13 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	09/28/13 15:43	09/29/13 18:53	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/23/13 10:58	09/26/13 20:45	1
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/23/13 10:58	09/26/13 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	09/23/13 10:58	09/26/13 20:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			09/24/13 16:08	1
Percent Moisture	6.3		0.10		%			09/24/13 16:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-108'**

**Lab Sample ID: 580-40407-5**

**Date Collected: 09/20/13 13:50**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 93.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,1,1-Trichloroethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,1,1,2,2-Tetrachloroethane	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,1,2-Trichloroethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,1-Dichloroethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,1-Dichloroethene	ND		3.6		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,1-Dichloropropene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2,3-Trichlorobenzene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2,3-Trichloropropane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2,4-Trichlorobenzene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2,4-Trimethylbenzene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2-Dibromo-3-Chloropropane	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2-Dichlorobenzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,2-Dichloropropane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,3,5-Trimethylbenzene	ND		3.6		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,3-Dichlorobenzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,3-Dichloropropane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
1,4-Dichlorobenzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
2,2-Dichloropropane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
2-Chlorotoluene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
4-Chlorotoluene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
4-Isopropyltoluene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Benzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Bromobenzene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Bromoform	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Bromomethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Carbon tetrachloride	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Chlorobenzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Chlorobromomethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Chlorodibromomethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Chloroethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Chloroform	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Chloromethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
cis-1,2-Dichloroethene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
cis-1,3-Dichloropropene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Dibromomethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Dichlorobromomethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Dichlorodifluoromethane	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
EDB	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
EDC	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Ethylbenzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Hexachlorobutadiene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Isopropylbenzene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Methyl tert-butyl ether	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Methylene Chloride	ND		11		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
m-Xylene & p-Xylene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
Naphthalene	ND		3.6		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
n-Butylbenzene	ND		1.4		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1
N-Propylbenzene	ND		0.71		ug/Kg	*	09/21/13 09:30	09/23/13 20:18	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-108'**

**Lab Sample ID: 580-40407-5**

**Date Collected: 09/20/13 13:50**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 93.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
sec-Butylbenzene	ND		1.4		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
Styrene	ND		1.4		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
tert-Butylbenzene	ND		1.4		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
Tetrachloroethene	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
Toluene	ND		1.4		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
trans-1,2-Dichloroethene	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
trans-1,3-Dichloropropene	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
Trichloroethene	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
Trichlorofluoromethane	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1
Vinyl chloride	ND		0.71		ug/Kg	☼	09/21/13 09:30	09/23/13 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 120	09/21/13 09:30	09/23/13 20:18	1
Ethylbenzene-d10	100		70 - 120	09/21/13 09:30	09/23/13 20:18	1
Fluorobenzene (Surr)	100		80 - 120	09/21/13 09:30	09/23/13 20:18	1
Toluene-d8 (Surr)	91		80 - 120	09/21/13 09:30	09/23/13 20:18	1
Trifluorotoluene (Surr)	101		65 - 140	09/21/13 09:30	09/23/13 20:18	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.1		mg/Kg	☼	09/28/13 15:43	09/29/13 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	09/28/13 15:43	09/29/13 19:15	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/23/13 10:58	09/26/13 21:00	1
Motor Oil (>C24-C36)	ND		52		mg/Kg	☼	09/23/13 10:58	09/26/13 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	09/23/13 10:58	09/26/13 21:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			09/24/13 16:08	1
Percent Moisture	6.4		0.10		%			09/24/13 16:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-118'**

**Lab Sample ID: 580-40407-6**

**Date Collected: 09/20/13 15:28**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 82.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,1,1-Trichloroethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,1,1,2,2-Tetrachloroethane	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,1,2-Trichloroethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,1-Dichloroethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,1-Dichloroethene	ND		4.8		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,1-Dichloropropene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2,3-Trichlorobenzene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2,3-Trichloropropane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2-Dibromo-3-Chloropropane	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2-Dichlorobenzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,2-Dichloropropane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,3-Dichlorobenzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,3-Dichloropropane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
1,4-Dichlorobenzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
2,2-Dichloropropane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
2-Chlorotoluene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
4-Chlorotoluene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
4-Isopropyltoluene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Benzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Bromobenzene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Bromoform	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Bromomethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Carbon tetrachloride	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Chlorobenzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Chlorobromomethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Chlorodibromomethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Chloroethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Chloroform	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Chloromethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
cis-1,2-Dichloroethene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
cis-1,3-Dichloropropene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Dibromomethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Dichlorobromomethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Dichlorodifluoromethane	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
EDB	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
EDC	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Ethylbenzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Hexachlorobutadiene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Isopropylbenzene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Methyl tert-butyl ether	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Methylene Chloride	ND		14		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
m-Xylene & p-Xylene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
Naphthalene	ND		4.8		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
n-Butylbenzene	ND		1.9		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1
N-Propylbenzene	ND		0.96		ug/Kg	*	09/21/13 09:30	09/23/13 20:42	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-118'**

**Lab Sample ID: 580-40407-6**

**Date Collected: 09/20/13 15:28**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 82.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
sec-Butylbenzene	ND		1.9		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
Styrene	ND		1.9		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
tert-Butylbenzene	ND		1.9		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
Tetrachloroethene	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
Toluene	ND		1.9		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
trans-1,2-Dichloroethene	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
trans-1,3-Dichloropropene	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
Trichloroethene	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
Trichlorofluoromethane	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
Vinyl chloride	ND		0.96		ug/Kg	☼	09/21/13 09:30	09/23/13 20:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		70 - 120				09/21/13 09:30	09/23/13 20:42	1
Ethylbenzene-d10	96		70 - 120				09/21/13 09:30	09/23/13 20:42	1
Fluorobenzene (Surr)	100		80 - 120				09/21/13 09:30	09/23/13 20:42	1
Toluene-d8 (Surr)	91		80 - 120				09/21/13 09:30	09/23/13 20:42	1
Trifluorotoluene (Surr)	91		65 - 140				09/21/13 09:30	09/23/13 20:42	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg	☼	09/28/13 15:43	09/29/13 19:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	96		50 - 150				09/28/13 15:43	09/29/13 19:37	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		30		mg/Kg	☼	09/23/13 10:58	09/26/13 21:16	1
Motor Oil (>C24-C36)	ND		60		mg/Kg	☼	09/23/13 10:58	09/26/13 21:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	80		50 - 150				09/23/13 10:58	09/26/13 21:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10		%			09/24/13 16:08	1
Percent Moisture	17		0.10		%			09/24/13 16:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-128'**

**Lab Sample ID: 580-40407-7**

**Date Collected: 09/20/13 16:29**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 85.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,1,1-Trichloroethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,1,2,2-Tetrachloroethane	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,1,2-Trichloroethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,1-Dichloroethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,1-Dichloroethene	ND		4.0		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,1-Dichloropropene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2,3-Trichlorobenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2,3-Trichloropropane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2,4-Trichlorobenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2,4-Trimethylbenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2-Dibromo-3-Chloropropane	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2-Dichlorobenzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,2-Dichloropropane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,3,5-Trimethylbenzene	ND		4.0		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,3-Dichlorobenzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,3-Dichloropropane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
1,4-Dichlorobenzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
2,2-Dichloropropane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
2-Chlorotoluene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
4-Chlorotoluene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
4-Isopropyltoluene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Benzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Bromobenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Bromoform	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Bromomethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Carbon tetrachloride	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Chlorobenzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Chlorobromomethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Chlorodibromomethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Chloroethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Chloroform	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Chloromethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
cis-1,2-Dichloroethene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
cis-1,3-Dichloropropene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Dibromomethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Dichlorobromomethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Dichlorodifluoromethane	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
EDB	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
EDC	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Ethylbenzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Hexachlorobutadiene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Isopropylbenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Methyl tert-butyl ether	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Methylene Chloride	ND		12		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
m-Xylene & p-Xylene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
Naphthalene	ND		4.0		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
n-Butylbenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1
N-Propylbenzene	ND		0.80		ug/Kg	*	09/21/13 09:30	09/23/13 21:05	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-128'**

**Lab Sample ID: 580-40407-7**

**Date Collected: 09/20/13 16:29**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 85.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
sec-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
Styrene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
tert-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
Tetrachloroethene	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
Toluene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
trans-1,2-Dichloroethene	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
trans-1,3-Dichloropropene	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
Trichloroethene	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
Trichlorofluoromethane	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
Vinyl chloride	ND		0.80		ug/Kg	☼	09/21/13 09:30	09/23/13 21:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	88		70 - 120				09/21/13 09:30	09/23/13 21:05	1
Ethylbenzene-d10	95		70 - 120				09/21/13 09:30	09/23/13 21:05	1
Fluorobenzene (Surr)	101		80 - 120				09/21/13 09:30	09/23/13 21:05	1
Toluene-d8 (Surr)	91		80 - 120				09/21/13 09:30	09/23/13 21:05	1
Trifluorotoluene (Surr)	92		65 - 140				09/21/13 09:30	09/23/13 21:05	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.4		mg/Kg	☼	09/28/13 15:43	09/29/13 19:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	96		50 - 150				09/28/13 15:43	09/29/13 19:59	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		29		mg/Kg	☼	09/23/13 10:58	09/26/13 22:03	1
Motor Oil (>C24-C36)	ND		57		mg/Kg	☼	09/23/13 10:58	09/26/13 22:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	78		50 - 150				09/23/13 10:58	09/26/13 22:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85		0.10		%			09/24/13 16:08	1
Percent Moisture	15		0.10		%			09/24/13 16:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-148'**

**Lab Sample ID: 580-40407-8**

**Date Collected: 09/20/13 18:05**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 90.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,1,1-Trichloroethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,1,2,2-Tetrachloroethane	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,1,2-Trichloroethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,1-Dichloroethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,1-Dichloroethene	ND		3.9		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,1-Dichloropropene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2,3-Trichlorobenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2,3-Trichloropropane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2,4-Trichlorobenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2,4-Trimethylbenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2-Dibromo-3-Chloropropane	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2-Dichlorobenzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,2-Dichloropropane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,3,5-Trimethylbenzene	ND		3.9		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,3-Dichlorobenzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,3-Dichloropropane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
1,4-Dichlorobenzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
2,2-Dichloropropane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
2-Chlorotoluene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
4-Chlorotoluene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
4-Isopropyltoluene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Benzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Bromobenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Bromoform	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Bromomethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Carbon tetrachloride	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Chlorobenzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Chlorobromomethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Chlorodibromomethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Chloroethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Chloroform	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Chloromethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
cis-1,2-Dichloroethene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
cis-1,3-Dichloropropene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Dibromomethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Dichlorobromomethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Dichlorodifluoromethane	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
EDB	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
EDC	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Ethylbenzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Hexachlorobutadiene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Isopropylbenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Methyl tert-butyl ether	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Methylene Chloride	ND		12		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
m-Xylene & p-Xylene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
Naphthalene	ND		3.9		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
n-Butylbenzene	ND		1.6		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1
N-Propylbenzene	ND		0.79		ug/Kg	*	09/21/13 09:30	09/23/13 21:28	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-148'**

**Lab Sample ID: 580-40407-8**

**Date Collected: 09/20/13 18:05**

**Matrix: Solid**

**Date Received: 09/21/13 09:05**

**Percent Solids: 90.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
sec-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
Styrene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
tert-Butylbenzene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
Tetrachloroethene	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
Toluene	ND		1.6		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
trans-1,2-Dichloroethene	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
trans-1,3-Dichloropropene	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
Trichloroethene	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
Trichlorofluoromethane	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
Vinyl chloride	ND		0.79		ug/Kg	☼	09/21/13 09:30	09/23/13 21:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	88		70 - 120				09/21/13 09:30	09/23/13 21:28	1
Ethylbenzene-d10	97		70 - 120				09/21/13 09:30	09/23/13 21:28	1
Fluorobenzene (Surr)	99		80 - 120				09/21/13 09:30	09/23/13 21:28	1
Toluene-d8 (Surr)	89		80 - 120				09/21/13 09:30	09/23/13 21:28	1
Trifluorotoluene (Surr)	93		65 - 140				09/21/13 09:30	09/23/13 21:28	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.2		mg/Kg	☼	09/28/13 15:43	09/29/13 21:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	96		50 - 150				09/28/13 15:43	09/29/13 21:04	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/23/13 10:58	09/26/13 22:19	1
Motor Oil (>C24-C36)	ND		52		mg/Kg	☼	09/23/13 10:58	09/26/13 22:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	82		50 - 150				09/23/13 10:58	09/26/13 22:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			09/24/13 16:11	1
Percent Moisture	10		0.10		%			09/24/13 16:11	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-145600/1-A**

**Matrix: Solid**

**Analysis Batch: 145595**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 145600**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,1-Dichloroethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,1-Dichloroethene	ND		5.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,1-Dichloropropene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2,3-Trichloropropane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2-Dichloropropane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,3-Dichloropropane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
2,2-Dichloropropane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
2-Chlorotoluene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
4-Chlorotoluene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
4-Isopropyltoluene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Benzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Bromobenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Bromoform	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Bromomethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Carbon tetrachloride	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Chlorobenzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Chlorobromomethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Chlorodibromomethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Chloroethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Chloroform	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Chloromethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Dibromomethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Dichlorobromomethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Dichlorodifluoromethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
EDB	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
EDC	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Ethylbenzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Hexachlorobutadiene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Isopropylbenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Methyl tert-butyl ether	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Methylene Chloride	ND		15		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Naphthalene	ND		5.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
n-Butylbenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
N-Propylbenzene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-145600/1-A**  
**Matrix: Solid**  
**Analysis Batch: 145595**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 145600**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
sec-Butylbenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Styrene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
tert-Butylbenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Tetrachloroethene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Toluene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Trichloroethene	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Trichlorofluoromethane	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
Vinyl chloride	ND		1.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		09/23/13 15:57	09/23/13 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 120	09/23/13 15:57	09/23/13 16:48	1
Ethylbenzene-d10	92		70 - 120	09/23/13 15:57	09/23/13 16:48	1
Fluorobenzene (Surr)	97		80 - 120	09/23/13 15:57	09/23/13 16:48	1
Toluene-d8 (Surr)	83		80 - 120	09/23/13 15:57	09/23/13 16:48	1
Trifluorotoluene (Surr)	118		65 - 140	09/23/13 15:57	09/23/13 16:48	1

**Lab Sample ID: LCS 580-145600/2-A**  
**Matrix: Solid**  
**Analysis Batch: 145595**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 145600**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	30.0	30.9		ug/Kg		103	72 - 123
1,1,1-Trichloroethane	30.0	34.0		ug/Kg		113	63 - 135
1,1,2,2-Tetrachloroethane	30.0	29.4		ug/Kg		98	73 - 125
1,1,2-Trichloroethane	30.0	31.0		ug/Kg		103	77 - 124
1,1-Dichloroethane	30.0	31.4		ug/Kg		105	70 - 128
1,1-Dichloroethene	30.0	29.8		ug/Kg		99	70 - 133
1,1-Dichloropropene	30.0	31.1		ug/Kg		104	77 - 123
1,2,3-Trichlorobenzene	30.0	32.6		ug/Kg		109	61 - 130
1,2,3-Trichloropropene	30.0	29.8		ug/Kg		99	77 - 123
1,2,4-Trichlorobenzene	30.0	33.2		ug/Kg		111	61 - 130
1,2-Dibromo-3-Chloropropane	30.0	31.9		ug/Kg		106	53 - 132
1,2-Dichlorobenzene	30.0	31.9		ug/Kg		106	79 - 117
1,2-Dichloropropane	30.0	30.3		ug/Kg		101	76 - 161
1,3,5-Trimethylbenzene	30.0	34.5		ug/Kg		115	80 - 125
1,3-Dichlorobenzene	30.0	32.1		ug/Kg		107	79 - 119
1,3-Dichloropropane	30.0	31.6		ug/Kg		105	77 - 123
1,4-Dichlorobenzene	30.0	30.9		ug/Kg		103	79 - 117
2,2-Dichloropropane	30.0	36.5		ug/Kg		122	56 - 144
2-Chlorotoluene	30.0	32.2		ug/Kg		107	79 - 122
4-Chlorotoluene	30.0	33.8		ug/Kg		113	80 - 122
4-Isopropyltoluene	30.0	32.8		ug/Kg		109	78 - 126
Benzene	30.0	30.7		ug/Kg		102	70 - 128
Bromobenzene	30.0	30.4		ug/Kg		101	80 - 120

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-145600/2-A

Matrix: Solid

Analysis Batch: 145595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 145600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	30.0	31.2		ug/Kg		104	50 - 124
Bromomethane	30.0	32.4		ug/Kg		108	57 - 148
Carbon tetrachloride	30.0	33.8		ug/Kg		113	59 - 145
Chlorobenzene	30.0	29.8		ug/Kg		99	75 - 120
Chlorobromomethane	30.0	30.6		ug/Kg		102	78 - 123
Chlorodibromomethane	30.0	34.0		ug/Kg		113	69 - 129
Chloroethane	30.0	33.6		ug/Kg		112	48 - 167
Chloroform	30.0	30.7		ug/Kg		102	78 - 125
Chloromethane	30.0	31.7		ug/Kg		106	55 - 136
cis-1,2-Dichloroethene	30.0	30.9		ug/Kg		103	70 - 130
cis-1,3-Dichloropropene	30.0	29.6		ug/Kg		99	69 - 129
Dibromomethane	30.0	30.9		ug/Kg		103	78 - 126
Dichlorobromomethane	30.0	34.7		ug/Kg		116	58 - 133
Dichlorodifluoromethane	30.0	30.5		ug/Kg		102	38 - 150
EDB	30.0	31.3		ug/Kg		104	69 - 126
EDC	30.0	30.1		ug/Kg		100	71 - 128
Ethylbenzene	30.0	31.3		ug/Kg		104	78 - 126
Hexachlorobutadiene	30.0	37.1		ug/Kg		124	68 - 134
Isopropylbenzene	30.0	30.9		ug/Kg		103	79 - 127
Methyl tert-butyl ether	30.0	32.6		ug/Kg		109	65 - 125
Methylene Chloride	30.0	30.6		ug/Kg		102	57 - 146
m-Xylene & p-Xylene	30.0	31.6		ug/Kg		105	78 - 126
Naphthalene	30.0	29.9		ug/Kg		100	14 - 170
n-Butylbenzene	30.0	35.2		ug/Kg		117	78 - 128
N-Propylbenzene	30.0	34.9		ug/Kg		116	81 - 127
o-Xylene	30.0	32.5		ug/Kg		108	77 - 127
sec-Butylbenzene	30.0	35.4		ug/Kg		118	78 - 128
Styrene	30.0	32.8		ug/Kg		109	79 - 127
tert-Butylbenzene	30.0	30.5		ug/Kg		102	71 - 136
Tetrachloroethene	30.0	32.3		ug/Kg		108	56 - 150
Toluene	30.0	31.7		ug/Kg		106	75 - 126
trans-1,2-Dichloroethene	30.0	30.5		ug/Kg		102	76 - 131
trans-1,3-Dichloropropene	30.0	30.9		ug/Kg		103	72 - 129
Trichloroethene	30.0	31.5		ug/Kg		105	83 - 124
Trichlorofluoromethane	30.0	33.6		ug/Kg		112	47 - 165
Vinyl chloride	30.0	32.9		ug/Kg		110	67 - 131
1,2,4-Trimethylbenzene	30.0	32.1		ug/Kg		107	79 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 120
Ethylbenzene-d10	99		70 - 120
Fluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	105		80 - 120
Trifluorotoluene (Surr)	111		65 - 140

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-145600/3-A**

**Matrix: Solid**

**Analysis Batch: 145595**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 145600**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	30.0	31.7		ug/Kg		106	72 - 123	3	20	
1,1,1-Trichloroethane	30.0	32.4		ug/Kg		108	63 - 135	5	20	
1,1,2,2-Tetrachloroethane	30.0	29.8		ug/Kg		99	73 - 125	1	22	
1,1,2-Trichloroethane	30.0	31.2		ug/Kg		104	77 - 124	1	18	
1,1-Dichloroethane	30.0	31.2		ug/Kg		104	70 - 128	1	21	
1,1-Dichloroethene	30.0	29.5		ug/Kg		98	70 - 133	1	23	
1,1-Dichloropropene	30.0	30.5		ug/Kg		102	77 - 123	2	16	
1,2,3-Trichlorobenzene	30.0	32.0		ug/Kg		107	61 - 130	2	23	
1,2,3-Trichloropropane	30.0	30.7		ug/Kg		102	77 - 123	3	23	
1,2,4-Trichlorobenzene	30.0	32.3		ug/Kg		108	61 - 130	3	22	
1,2-Dibromo-3-Chloropropane	30.0	31.2		ug/Kg		104	53 - 132	2	27	
1,2-Dichlorobenzene	30.0	31.3		ug/Kg		104	79 - 117	2	17	
1,2-Dichloropropane	30.0	31.6		ug/Kg		105	76 - 161	4	15	
1,3,5-Trimethylbenzene	30.0	35.1		ug/Kg		117	80 - 125	2	18	
1,3-Dichlorobenzene	30.0	32.4		ug/Kg		108	79 - 119	1	17	
1,3-Dichloropropane	30.0	31.5		ug/Kg		105	77 - 123	0	19	
1,4-Dichlorobenzene	30.0	30.3		ug/Kg		101	79 - 117	2	18	
2,2-Dichloropropane	30.0	35.3		ug/Kg		118	56 - 144	3	21	
2-Chlorotoluene	30.0	33.1		ug/Kg		110	79 - 122	3	18	
4-Chlorotoluene	30.0	34.7		ug/Kg		116	80 - 122	3	18	
4-Isopropyltoluene	30.0	32.5		ug/Kg		108	78 - 126	1	18	
Benzene	30.0	30.5		ug/Kg		102	70 - 128	0	19	
Bromobenzene	30.0	31.3		ug/Kg		104	80 - 120	3	19	
Bromoform	30.0	31.6		ug/Kg		105	50 - 124	1	25	
Bromomethane	30.0	27.9		ug/Kg		93	57 - 148	15	29	
Carbon tetrachloride	30.0	32.4		ug/Kg		108	59 - 145	4	19	
Chlorobenzene	30.0	30.9		ug/Kg		103	75 - 120	4	21	
Chlorobromomethane	30.0	30.4		ug/Kg		101	78 - 123	0	19	
Chlorodibromomethane	30.0	33.0		ug/Kg		110	69 - 129	3	23	
Chloroethane	30.0	27.5		ug/Kg		92	48 - 167	20	53	
Chloroform	30.0	30.3		ug/Kg		101	78 - 125	1	17	
Chloromethane	30.0	31.7		ug/Kg		106	55 - 136	0	26	
cis-1,2-Dichloroethene	30.0	31.2		ug/Kg		104	70 - 130	1	19	
cis-1,3-Dichloropropene	30.0	29.6		ug/Kg		99	69 - 129	0	19	
Dibromomethane	30.0	31.1		ug/Kg		104	78 - 126	1	18	
Dichlorobromomethane	30.0	33.7		ug/Kg		112	58 - 133	3	19	
Dichlorodifluoromethane	30.0	29.0		ug/Kg		97	38 - 150	5	26	
EDB	30.0	31.2		ug/Kg		104	69 - 126	1	21	
EDC	30.0	29.2		ug/Kg		97	71 - 128	3	18	
Ethylbenzene	30.0	31.9		ug/Kg		106	78 - 126	2	23	
Hexachlorobutadiene	30.0	36.0		ug/Kg		120	68 - 134	3	21	
Isopropylbenzene	30.0	31.1		ug/Kg		104	79 - 127	1	20	
Methyl tert-butyl ether	30.0	32.4		ug/Kg		108	65 - 125	1	30	
Methylene Chloride	30.0	28.6		ug/Kg		95	57 - 146	7	21	
m-Xylene & p-Xylene	30.0	32.0		ug/Kg		107	78 - 126	1	23	
Naphthalene	30.0	31.4		ug/Kg		105	14 - 170	5	50	
n-Butylbenzene	30.0	34.9		ug/Kg		116	78 - 128	1	17	
N-Propylbenzene	30.0	35.3		ug/Kg		118	81 - 127	1	20	

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-145600/3-A

Matrix: Solid

Analysis Batch: 145595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 145600

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
o-Xylene	30.0	34.1		ug/Kg		114	77 - 127	5	22	
sec-Butylbenzene	30.0	35.6		ug/Kg		119	78 - 128	0	17	
Styrene	30.0	34.4		ug/Kg		115	79 - 127	5	21	
tert-Butylbenzene	30.0	31.0		ug/Kg		103	71 - 136	1	27	
Tetrachloroethene	30.0	32.5		ug/Kg		108	56 - 150	1	27	
Toluene	30.0	31.7		ug/Kg		106	75 - 126	0	19	
trans-1,2-Dichloroethene	30.0	30.8		ug/Kg		103	76 - 131	1	18	
trans-1,3-Dichloropropene	30.0	31.9		ug/Kg		106	72 - 129	3	20	
Trichloroethene	30.0	30.9		ug/Kg		103	83 - 124	2	17	
Trichlorofluoromethane	30.0	31.7		ug/Kg		106	47 - 165	6	54	
Vinyl chloride	30.0	33.0		ug/Kg		110	67 - 131	0	22	
1,2,4-Trimethylbenzene	30.0	32.1		ug/Kg		107	79 - 124	0	18	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	104		70 - 120
Ethylbenzene-d10	101		70 - 120
Fluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	105		80 - 120
Trifluorotoluene (Surr)	111		65 - 140

## Method: 8260B/5035 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-145658/1-A

Matrix: Solid

Analysis Batch: 145713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 145658

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,1,1-Trichloroethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,1,1,2,2-Tetrachloroethane	ND		10		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,1,1,2-Trichloroethane	ND		12		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,1-Dichloroethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,1-Dichloroethene	ND		20		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,1-Dichloropropene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2,3-Trichlorobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2,3-Trichloropropane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2,4-Trichlorobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2-Dibromo-3-Chloropropane	ND		200		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2-Dichlorobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2-Dichloropropane	ND		12		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,3-Dichlorobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,3-Dichloropropane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,4-Dichlorobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
2,2-Dichloropropane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
2-Chlorotoluene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
4-Chlorotoluene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
4-Isopropyltoluene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B/5035 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-145658/1-A**

**Matrix: Solid**

**Analysis Batch: 145713**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 145658**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		16		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Bromobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Bromoform	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Bromomethane	ND		140		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Carbon tetrachloride	ND		20		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Chlorobenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Chlorobromomethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Chlorodibromomethane	ND		20		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Chloroethane	ND		400		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Chloroform	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Chloromethane	ND		400		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
cis-1,2-Dichloroethene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
cis-1,3-Dichloropropene	ND		16		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Dibromomethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Dichlorobromomethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Dichlorodifluoromethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
EDB	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
EDC	ND		16		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Ethylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Hexachlorobutadiene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Isopropylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Methyl tert-butyl ether	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Methylene Chloride	ND		16		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
m-Xylene & p-Xylene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Naphthalene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
n-Butylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
N-Propylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
o-Xylene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
sec-Butylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Styrene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
tert-Butylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Tetrachloroethene	ND		20		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Toluene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
trans-1,2-Dichloroethene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
trans-1,3-Dichloropropene	ND		16		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Trichloroethene	ND		16		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Trichlorofluoromethane	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
Vinyl chloride	ND		8.0		ug/Kg		09/24/13 09:33	09/24/13 09:55	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		09/24/13 09:33	09/24/13 09:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		70 - 120	09/24/13 09:33	09/24/13 09:55	1
Ethylbenzene-d10	100		70 - 120	09/24/13 09:33	09/24/13 09:55	1
Fluorobenzene (Surr)	97		80 - 120	09/24/13 09:33	09/24/13 09:55	1
Toluene-d8 (Surr)	98		80 - 120	09/24/13 09:33	09/24/13 09:55	1
Trifluorotoluene (Surr)	107		65 - 140	09/24/13 09:33	09/24/13 09:55	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B/5035 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-145658/2-A**

**Matrix: Solid**

**Analysis Batch: 145713**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 145658**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	800	736		ug/Kg		92	72 - 123
1,1,1-Trichloroethane	800	810		ug/Kg		101	63 - 135
1,1,2,2-Tetrachloroethane	800	835		ug/Kg		104	73 - 125
1,1,2-Trichloroethane	800	819		ug/Kg		102	77 - 124
1,1-Dichloroethane	800	837		ug/Kg		105	70 - 128
1,1-Dichloroethene	800	791		ug/Kg		99	70 - 133
1,1-Dichloropropene	800	888		ug/Kg		111	77 - 123
1,2,3-Trichlorobenzene	800	833		ug/Kg		104	61 - 130
1,2,3-Trichloropropane	800	821		ug/Kg		103	77 - 123
1,2,4-Trichlorobenzene	800	840		ug/Kg		105	61 - 130
1,2-Dibromo-3-Chloropropane	800	736		ug/Kg		92	53 - 132
1,2-Dichlorobenzene	800	807		ug/Kg		101	79 - 117
1,2-Dichloropropane	800	1060		ug/Kg		132	76 - 161
1,3,5-Trimethylbenzene	800	816		ug/Kg		102	80 - 125
1,3-Dichlorobenzene	800	802		ug/Kg		100	79 - 119
1,3-Dichloropropane	800	797		ug/Kg		100	77 - 123
1,4-Dichlorobenzene	800	768		ug/Kg		96	79 - 117
2,2-Dichloropropane	800	919		ug/Kg		115	56 - 144
2-Chlorotoluene	800	788		ug/Kg		99	79 - 122
4-Chlorotoluene	800	784		ug/Kg		98	80 - 122
4-Isopropyltoluene	800	844		ug/Kg		106	78 - 126
Benzene	800	816		ug/Kg		102	70 - 128
Bromobenzene	800	775		ug/Kg		97	80 - 120
Bromoform	800	716		ug/Kg		89	50 - 124
Bromomethane	800	807		ug/Kg		101	57 - 148
Carbon tetrachloride	800	896		ug/Kg		112	59 - 145
Chlorobenzene	800	783		ug/Kg		98	75 - 120
Chlorobromomethane	800	854		ug/Kg		107	78 - 123
Chlorodibromomethane	800	780		ug/Kg		98	69 - 129
Chloroethane	800	885		ug/Kg		111	48 - 167
Chloroform	800	840		ug/Kg		105	78 - 125
Chloromethane	800	735		ug/Kg		92	55 - 136
cis-1,2-Dichloroethene	800	852		ug/Kg		107	70 - 130
cis-1,3-Dichloropropene	800	810		ug/Kg		101	69 - 129
Dibromomethane	800	820		ug/Kg		103	78 - 126
Dichlorobromomethane	800	751		ug/Kg		94	58 - 133
Dichlorodifluoromethane	800	742		ug/Kg		93	38 - 150
EDB	800	832		ug/Kg		104	69 - 126
EDC	800	832		ug/Kg		104	71 - 128
Ethylbenzene	800	807		ug/Kg		101	78 - 126
Hexachlorobutadiene	800	862		ug/Kg		108	68 - 134
Isopropylbenzene	800	817		ug/Kg		102	79 - 127
Methyl tert-butyl ether	800	807		ug/Kg		101	65 - 125
Methylene Chloride	800	821		ug/Kg		103	57 - 146
m-Xylene & p-Xylene	800	822		ug/Kg		103	78 - 126
Naphthalene	800	846		ug/Kg		106	14 - 170
n-Butylbenzene	800	825		ug/Kg		103	78 - 128
N-Propylbenzene	800	816		ug/Kg		102	81 - 127

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: 8260B/5035 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-145658/2-A**

**Matrix: Solid**

**Analysis Batch: 145713**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 145658**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	800	797		ug/Kg		100	77 - 127
sec-Butylbenzene	800	838		ug/Kg		105	78 - 128
Styrene	800	835		ug/Kg		104	79 - 127
tert-Butylbenzene	800	828		ug/Kg		104	71 - 136
Tetrachloroethene	800	813		ug/Kg		102	56 - 150
Toluene	800	802		ug/Kg		100	75 - 126
trans-1,2-Dichloroethene	800	835		ug/Kg		104	76 - 131
trans-1,3-Dichloropropene	800	797		ug/Kg		100	72 - 129
Trichloroethene	800	827		ug/Kg		103	83 - 124
Trichlorofluoromethane	800	713		ug/Kg		89	47 - 165
Vinyl chloride	800	774		ug/Kg		97	67 - 131
1,2,4-Trimethylbenzene	800	832		ug/Kg		104	79 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 120
Ethylbenzene-d10	94		70 - 120
Fluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	98		80 - 120
Trifluorotoluene (Surr)	104		65 - 140

**Lab Sample ID: MB 580-146222/1-A**

**Matrix: Solid**

**Analysis Batch: 146472**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 146222**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		40		ug/Kg		10/01/13 08:06	10/01/13 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 120	10/01/13 08:06	10/01/13 09:13	1
Ethylbenzene-d10	102		70 - 120	10/01/13 08:06	10/01/13 09:13	1
Fluorobenzene (Surr)	102		80 - 120	10/01/13 08:06	10/01/13 09:13	1
Toluene-d8 (Surr)	98		80 - 120	10/01/13 08:06	10/01/13 09:13	1
Trifluorotoluene (Surr)	101		65 - 140	10/01/13 08:06	10/01/13 09:13	1

**Lab Sample ID: LCS 580-146222/2-A**

**Matrix: Solid**

**Analysis Batch: 146472**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 146222**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	800	839		ug/Kg		105	79 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 120
Ethylbenzene-d10	102		70 - 120
Fluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	99		80 - 120
Trifluorotoluene (Surr)	98		65 - 140

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-146057/1-A**

**Matrix: Solid**

**Analysis Batch: 146087**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 146057**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		09/28/13 15:43	09/29/13 16:32	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150				09/28/13 15:43	09/29/13 16:32	1
Trifluorotoluene (Surr)	121		50 - 150				09/28/13 15:43	09/29/13 16:32	1

**Lab Sample ID: LCS 580-146057/2-A**

**Matrix: Solid**

**Analysis Batch: 146087**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 146057**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	37.8		mg/Kg		94	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		50 - 150				
Trifluorotoluene (Surr)	118		50 - 150				

**Lab Sample ID: LCSD 580-146057/3-A**

**Matrix: Solid**

**Analysis Batch: 146087**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 146057**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline	40.0	38.6		mg/Kg		96	68 - 120	2	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		50 - 150						
Trifluorotoluene (Surr)	119		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-145568/1-A**

**Matrix: Solid**

**Analysis Batch: 145880**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 145568**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg		09/23/13 10:58	09/26/13 19:27	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		09/23/13 10:58	09/26/13 19:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150				09/23/13 10:58	09/26/13 19:27	1

**Lab Sample ID: LCS 580-145568/2-A**

**Matrix: Solid**

**Analysis Batch: 145880**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 145568**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	399		mg/Kg		80	70 - 125

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 580-145568/2-A**

**Matrix: Solid**

**Analysis Batch: 145880**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 145568**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Motor Oil (>C24-C36)	500	434		mg/Kg		87	64 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	80		50 - 150

**Lab Sample ID: LCSD 580-145568/3-A**

**Matrix: Solid**

**Analysis Batch: 145880**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 145568**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	428		mg/Kg		86	70 - 125	7	16
Motor Oil (>C24-C36)	500	461		mg/Kg		92	64 - 127	6	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	85		50 - 150

**Lab Sample ID: 580-40407-1 DU**

**Matrix: Solid**

**Analysis Batch: 145880**

**Client Sample ID: MW1-68'**

**Prep Type: Total/NA**

**Prep Batch: 145568**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
#2 Diesel (C10-C24)	ND		ND		mg/Kg	✱	6	35
Motor Oil (>C24-C36)	ND		ND		mg/Kg	✱	10	35

Surrogate	DU %Recovery	DU Qualifier	Limits
<i>o</i> -Terphenyl	75		50 - 150

## Method: D 2216 - Percent Moisture

**Lab Sample ID: 580-40407-6 DU**

**Matrix: Solid**

**Analysis Batch: 145724**

**Client Sample ID: MW1-118'**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	83		83		%			20
Percent Moisture	17		17		%			20

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

**Client Sample ID: MW1-68'**

**Lab Sample ID: 580-40407-1**

Date Collected: 09/20/13 08:15

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 19:08	JMB	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 17:48	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 19:42	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

**Client Sample ID: MW1-78'**

**Lab Sample ID: 580-40407-2**

Date Collected: 09/20/13 09:55

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145658	09/24/13 09:33	MMH	TAL SEA
Total/NA	Analysis	8260B/5035		1	145713	09/24/13 18:10	MMH	TAL SEA
Total/NA	Prep	5035	DL		145658	09/24/13 09:33	MMH	TAL SEA
Total/NA	Analysis	8260B/5035	DL	10	145870	09/26/13 10:41	MMH	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		10	146087	09/29/13 18:09	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 20:13	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

**Client Sample ID: MW1-88'**

**Lab Sample ID: 580-40407-3**

Date Collected: 09/20/13 11:11

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 19:32	JMB	TAL SEA
Total/NA	Prep	5035			146222	10/01/13 08:06	MMH	TAL SEA
Total/NA	Analysis	8260B/5035		1	146472	10/01/13 21:10	MMH	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 18:31	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 20:29	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Client Sample ID: MW1-98'

Lab Sample ID: 580-40407-4

Date Collected: 09/20/13 12:17

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 19:55	JMB	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 18:53	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 20:45	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

## Client Sample ID: MW1-108'

Lab Sample ID: 580-40407-5

Date Collected: 09/20/13 13:50

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 20:18	JMB	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 19:15	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 21:00	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

## Client Sample ID: MW1-118'

Lab Sample ID: 580-40407-6

Date Collected: 09/20/13 15:28

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 20:42	JMB	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 19:37	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 21:16	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

## Client Sample ID: MW1-128'

Lab Sample ID: 580-40407-7

Date Collected: 09/20/13 16:29

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 21:05	JMB	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 19:59	NMR	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
 Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Client Sample ID: MW1-128'

Lab Sample ID: 580-40407-7

Date Collected: 09/20/13 16:29

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 22:03	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:08	JJP	TAL SEA

## Client Sample ID: MW1-148'

Lab Sample ID: 580-40407-8

Date Collected: 09/20/13 18:05

Matrix: Solid

Date Received: 09/21/13 09:05

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145600	09/21/13 09:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	145595	09/23/13 21:28	JMB	TAL SEA
Total/NA	Prep	5035			146057	09/28/13 15:43	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146087	09/29/13 21:04	NMR	TAL SEA
Total/NA	Prep	3550B			145568	09/23/13 10:58	WW1	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	145880	09/26/13 22:19	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145724	09/24/13 16:11	JJP	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

## Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: CK-6049 Kennewick, WA

TestAmerica Job ID: 580-40407-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-40407-1	MW1-68'	Solid	09/20/13 08:15	09/21/13 09:05
580-40407-2	MW1-78'	Solid	09/20/13 09:55	09/21/13 09:05
580-40407-3	MW1-88'	Solid	09/20/13 11:11	09/21/13 09:05
580-40407-4	MW1-98'	Solid	09/20/13 12:17	09/21/13 09:05
580-40407-5	MW1-108'	Solid	09/20/13 13:50	09/21/13 09:05
580-40407-6	MW1-118'	Solid	09/20/13 15:28	09/21/13 09:05
580-40407-7	MW1-128'	Solid	09/20/13 16:29	09/21/13 09:05
580-40407-8	MW1-148'	Solid	09/20/13 18:05	09/21/13 09:05



Short Hold

Chain of  
Custody Record

Client: **Blaes Environmental** Client Contact: **Don Blaes** Date: **9/20/13** Chain of Custody Number: **19884**

Address: **445 E Monterey Way** Telephone Number (Area Code)/Fax Number: **602-728-0707** Lab Number: **40407** Page **1** of **1**

City: **Phoenix** State: **AZ** Zip Code: **85012** Sampler: **Don Gray** Lab Contact: **Don Blaes** Analysis (Attach list if more space is needed)

Project Name and Location (State): **CK-6049 Kanewick, Wa.** Billing Contact: **Don Blaes** Matrix: **NWTPH-D, 8260B, NWTPH-G, EDB** Containers & Preservatives: **MeOH** Special Instructions/Conditions of Receipt:

Contract/Purchase Order/Quote No. **580-40407 Chain of Custody**

Sample ID and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HN03	HCl	NaOH			ZnAc/NaOH	MeOH
1- MW1-68'	9/20/13	08:15				X									circle paving
2- MW1-78'		09:55													
3- MW1-88'		11:11													
4- MW1-98'		12:17													
5- MW1-108'		13:50													
6- MW1-118'		15:28													
7- MW1-128'		16:29													
8- MW1-148'		18:05													



580-40407 Chain of Custody

Cooler/TB Dig/IR cord 5 uncs  
Cooler Desc: *John White@Lab*  
Wet Packs Packing bubble  
WDCS. *Client drop*

Cooler  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Active For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other **72 Hrs**

1. Requiring By Sign/Print **Andi Gray** Date **9/20/13** Time **18:15** 1. Received By Sign/Print **Don Blaes** Date **9/20/13** Time **13:15**

2. Requiring By Sign/Print **Don Blaes** Date **9/20/13** Time **9:05** 2. Received By Sign/Print **Don Blaes** Date **9/20/13** Time **09:05**

3. Requiring By Sign/Print **Don Blaes** Date **9/20/13** Time **09:05** 3. Received By Sign/Print **Don Blaes** Date **9/20/13** Time **09:05**

## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-40407-1

**Login Number: 40407**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Balles, Racheal M**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310


TestAmerica Job ID: 580-40520-1

Client Project/Site: CIRCLE K #6049 KENNEWICK, WA

For:

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
10/3/2013 9:10:11 PM

Pam Johnson, Project Manager I  
(253)922-2310 x112  
[pamr.johnson@testamericainc.com](mailto:pamr.johnson@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

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**Job ID: 580-40520-1**

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**Laboratory: TestAmerica Seattle**

### Narrative

#### Receipt

The samples were received on 9/25/2013 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

#### GC/MS VOA

No analytical or quality issues were noted.

#### GC Semi VOA

Method(s) NWTPH-Dx: In analytical batch 146219, Instrument Blank (CCB) was not placed after continuous calibration verification (CCV). The following sample MW-2 @ 118' (580-40520-7) from preparation batch 146051 has no detection in #2 Diesel Fuel (C10-C24) and Motor Oil (>C24-C36) ranges. Sample meets the acceptance criteria for CCB, so it serves as the purpose of CCB for the following samples. MW-2 @ 118' (580-40520-7), MW-2 @ 128' (580-40520-8)

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

## Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 48'**

**Lab Sample ID: 580-40520-1**

Date Collected: 09/24/13 14:20

Matrix: Solid

Date Received: 09/25/13 16:30

Percent Solids: 94.5

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,1,1-Trichloroethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,1,2,2-Tetrachloroethane	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,1,2-Trichloroethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,1-Dichloroethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,1-Dichloroethene	ND		6.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,1-Dichloropropene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2,3-Trichlorobenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2,3-Trichloropropane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2,4-Trichlorobenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2,4-Trimethylbenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2-Dibromo-3-Chloropropane	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2-Dichlorobenzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,2-Dichloropropane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,3,5-Trimethylbenzene	ND		6.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,3-Dichlorobenzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,3-Dichloropropane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
1,4-Dichlorobenzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
2,2-Dichloropropane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
2-Chlorotoluene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
4-Chlorotoluene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
4-Isopropyltoluene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Benzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Bromobenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Bromoform	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Bromomethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Carbon tetrachloride	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Chlorobenzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Chlorobromomethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Chlorodibromomethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Chloroethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Chloroform	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Chloromethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
cis-1,2-Dichloroethene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
cis-1,3-Dichloropropene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Dibromomethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Dichlorobromomethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Dichlorodifluoromethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
EDB	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
EDC	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Ethylbenzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Hexachlorobutadiene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Isopropylbenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Methyl tert-butyl ether	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Methylene Chloride	ND		19		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
m-Xylene & p-Xylene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Naphthalene	ND		6.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
n-Butylbenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
N-Propylbenzene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 48'**

**Lab Sample ID: 580-40520-1**

**Date Collected: 09/24/13 14:20**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 94.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
sec-Butylbenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Styrene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
tert-Butylbenzene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Tetrachloroethene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Toluene	ND		2.5		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
trans-1,2-Dichloroethene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
trans-1,3-Dichloropropene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Trichloroethene	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Trichlorofluoromethane	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
Vinyl chloride	ND		1.3		ug/Kg	☼	09/25/13 17:30	10/02/13 01:48	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 120				09/25/13 17:30	10/02/13 01:48	1
Ethylbenzene-d10	95		70 - 120				09/25/13 17:30	10/02/13 01:48	1
Fluorobenzene (Surr)	96		80 - 120				09/25/13 17:30	10/02/13 01:48	1
Toluene-d8 (Surr)	94		80 - 120				09/25/13 17:30	10/02/13 01:48	1
Trifluorotoluene (Surr)	96		65 - 140				09/25/13 17:30	10/02/13 01:48	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.8		mg/Kg	☼	09/30/13 14:46	09/30/13 16:41	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150				09/30/13 14:46	09/30/13 16:41	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/28/13 14:11	10/01/13 15:52	1
Motor Oil (>C24-C36)	ND		52		mg/Kg	☼	09/28/13 14:11	10/01/13 15:52	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		50 - 150				09/28/13 14:11	10/01/13 15:52	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.5		1.1		mg/Kg	☼	09/27/13 14:50	09/28/13 23:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			09/27/13 12:27	1
Percent Moisture	5.5		0.10		%			09/27/13 12:27	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 68'**

**Lab Sample ID: 580-40520-2**

**Date Collected: 09/24/13 15:40**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 86.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,1,1-Trichloroethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,1,1,2,2-Tetrachloroethane	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,1,2-Trichloroethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,1-Dichloroethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,1-Dichloroethene	ND		5.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,1-Dichloropropene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2,3-Trichlorobenzene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2,3-Trichloropropane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2,4-Trimethylbenzene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2-Dibromo-3-Chloropropane	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2-Dichlorobenzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,2-Dichloropropane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,3,5-Trimethylbenzene	ND		5.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,3-Dichlorobenzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,3-Dichloropropane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
1,4-Dichlorobenzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
2,2-Dichloropropane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
2-Chlorotoluene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
4-Chlorotoluene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
4-Isopropyltoluene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Benzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Bromobenzene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Bromoform	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Bromomethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Carbon tetrachloride	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Chlorobenzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Chlorobromomethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Chlorodibromomethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Chloroethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Chloroform	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Chloromethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
cis-1,2-Dichloroethene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Dibromomethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Dichlorobromomethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Dichlorodifluoromethane	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
EDB	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
EDC	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Ethylbenzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Hexachlorobutadiene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Isopropylbenzene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Methyl tert-butyl ether	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Methylene Chloride	ND		16		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
m-Xylene & p-Xylene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
Naphthalene	ND		5.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
n-Butylbenzene	ND		2.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1
N-Propylbenzene	ND		1.1		ug/Kg	*	09/25/13 17:30	10/02/13 02:12	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 68'**

**Lab Sample ID: 580-40520-2**

**Date Collected: 09/24/13 15:40**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 86.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
sec-Butylbenzene	ND		2.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
Styrene	ND		2.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
tert-Butylbenzene	ND		2.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
Tetrachloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
Toluene	ND		2.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
trans-1,2-Dichloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
trans-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
Trichloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
Trichlorofluoromethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1
Vinyl chloride	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 120	09/25/13 17:30	10/02/13 02:12	1
Ethylbenzene-d10	95		70 - 120	09/25/13 17:30	10/02/13 02:12	1
Fluorobenzene (Surr)	94		80 - 120	09/25/13 17:30	10/02/13 02:12	1
Toluene-d8 (Surr)	90		80 - 120	09/25/13 17:30	10/02/13 02:12	1
Trifluorotoluene (Surr)	93		65 - 140	09/25/13 17:30	10/02/13 02:12	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.7		mg/Kg	☼	09/30/13 14:46	09/30/13 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150	09/30/13 14:46	09/30/13 17:03	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/28/13 14:11	10/01/13 16:27	1
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/28/13 14:11	10/01/13 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	09/28/13 14:11	10/01/13 16:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10		%			09/27/13 12:27	1
Percent Moisture	14		0.10		%			09/27/13 12:27	1

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 78'**

**Lab Sample ID: 580-40520-3**

**Date Collected: 09/24/13 16:30**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 91.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,1,1-Trichloroethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,1,1,2,2-Tetrachloroethane	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,1,2-Trichloroethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,1-Dichloroethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,1-Dichloroethene	ND		4.7		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,1-Dichloropropene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2,3-Trichlorobenzene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2,3-Trichloropropane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2-Dibromo-3-Chloropropane	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2-Dichlorobenzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,2-Dichloropropane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,3-Dichlorobenzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,3-Dichloropropane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
1,4-Dichlorobenzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
2,2-Dichloropropane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
2-Chlorotoluene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
4-Chlorotoluene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
4-Isopropyltoluene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Benzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Bromobenzene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Bromoform	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Bromomethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Carbon tetrachloride	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Chlorobenzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Chlorobromomethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Chlorodibromomethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Chloroethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Chloroform	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Chloromethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
cis-1,2-Dichloroethene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
cis-1,3-Dichloropropene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Dibromomethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Dichlorobromomethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Dichlorodifluoromethane	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
EDB	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
EDC	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Ethylbenzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Hexachlorobutadiene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Isopropylbenzene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Methyl tert-butyl ether	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Methylene Chloride	ND		14		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
m-Xylene & p-Xylene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
Naphthalene	ND		4.7		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
n-Butylbenzene	ND		1.9		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1
N-Propylbenzene	ND		0.93		ug/Kg	*	09/25/13 17:30	10/02/13 02:35	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 78'**

**Lab Sample ID: 580-40520-3**

**Date Collected: 09/24/13 16:30**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 91.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
sec-Butylbenzene	ND		1.9		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
Styrene	ND		1.9		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
tert-Butylbenzene	ND		1.9		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
Tetrachloroethene	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
Toluene	ND		1.9		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
trans-1,2-Dichloroethene	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
trans-1,3-Dichloropropene	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
Trichloroethene	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
Trichlorofluoromethane	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1
Vinyl chloride	ND		0.93		ug/Kg	☼	09/25/13 17:30	10/02/13 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 120	09/25/13 17:30	10/02/13 02:35	1
Ethylbenzene-d10	108		70 - 120	09/25/13 17:30	10/02/13 02:35	1
Fluorobenzene (Surr)	94		80 - 120	09/25/13 17:30	10/02/13 02:35	1
Toluene-d8 (Surr)	89		80 - 120	09/25/13 17:30	10/02/13 02:35	1
Trifluorotoluene (Surr)	93		65 - 140	09/25/13 17:30	10/02/13 02:35	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.4		mg/Kg	☼	09/30/13 14:46	09/30/13 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150	09/30/13 14:46	09/30/13 17:25	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/28/13 14:11	10/01/13 16:45	1
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/28/13 14:11	10/01/13 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	09/28/13 14:11	10/01/13 16:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			09/27/13 12:27	1
Percent Moisture	8.5		0.10		%			09/27/13 12:27	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 88'**

**Lab Sample ID: 580-40520-4**

**Date Collected: 09/24/13 17:10**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 87.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,1,1-Trichloroethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,1,1,2,2-Tetrachloroethane	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,1,2-Trichloroethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,1-Dichloroethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,1-Dichloroethene	ND		5.8		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,1-Dichloropropene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2,3-Trichlorobenzene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2,3-Trichloropropane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2,4-Trichlorobenzene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2,4-Trimethylbenzene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2-Dibromo-3-Chloropropane	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2-Dichlorobenzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,2-Dichloropropane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,3,5-Trimethylbenzene	ND		5.8		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,3-Dichlorobenzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,3-Dichloropropane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
1,4-Dichlorobenzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
2,2-Dichloropropane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
2-Chlorotoluene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
4-Chlorotoluene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
4-Isopropyltoluene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Benzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Bromobenzene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Bromoform	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Bromomethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Carbon tetrachloride	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Chlorobenzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Chlorobromomethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Chlorodibromomethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Chloroethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Chloroform	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Chloromethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
cis-1,2-Dichloroethene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
cis-1,3-Dichloropropene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Dibromomethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Dichlorobromomethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Dichlorodifluoromethane	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
EDB	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
EDC	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Ethylbenzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Hexachlorobutadiene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Isopropylbenzene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Methyl tert-butyl ether	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Methylene Chloride	ND		17		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
m-Xylene & p-Xylene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
Naphthalene	ND		5.8		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
n-Butylbenzene	ND		2.3		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1
N-Propylbenzene	ND		1.2		ug/Kg	*	09/25/13 17:30	10/02/13 02:58	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 88'**

**Lab Sample ID: 580-40520-4**

**Date Collected: 09/24/13 17:10**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 87.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
sec-Butylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Styrene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
tert-Butylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Tetrachloroethene	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Toluene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
trans-1,2-Dichloroethene	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
trans-1,3-Dichloropropene	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Trichloroethene	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Trichlorofluoromethane	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Vinyl chloride	ND		1.2		ug/Kg	☼	09/25/13 17:30	10/02/13 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 120				09/25/13 17:30	10/02/13 02:58	1
Ethylbenzene-d10	95		70 - 120				09/25/13 17:30	10/02/13 02:58	1
Fluorobenzene (Surr)	94		80 - 120				09/25/13 17:30	10/02/13 02:58	1
Toluene-d8 (Surr)	89		80 - 120				09/25/13 17:30	10/02/13 02:58	1
Trifluorotoluene (Surr)	90		65 - 140				09/25/13 17:30	10/02/13 02:58	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.5		mg/Kg	☼	09/30/13 14:46	09/30/13 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150				09/30/13 14:46	09/30/13 17:47	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/28/13 14:11	10/01/13 17:03	1
Motor Oil (>C24-C36)	ND		54		mg/Kg	☼	09/28/13 14:11	10/01/13 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				09/28/13 14:11	10/01/13 17:03	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.7		1.1		mg/Kg	☼	09/27/13 14:50	09/28/13 23:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10		%			09/27/13 12:27	1
Percent Moisture	12		0.10		%			09/27/13 12:27	1

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 98'**

**Lab Sample ID: 580-40520-5**

**Date Collected: 09/24/13 08:00**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 90.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,1,1-Trichloroethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,1,1,2,2-Tetrachloroethane	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,1,2-Trichloroethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,1-Dichloroethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,1-Dichloroethene	ND		4.5		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,1-Dichloropropene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2,3-Trichlorobenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2,3-Trichloropropane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2,4-Trichlorobenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2-Dibromo-3-Chloropropane	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2-Dichlorobenzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,2-Dichloropropane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,3-Dichlorobenzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,3-Dichloropropane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
1,4-Dichlorobenzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
2,2-Dichloropropane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
2-Chlorotoluene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
4-Chlorotoluene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
4-Isopropyltoluene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Benzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Bromobenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Bromoform	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Bromomethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Carbon tetrachloride	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Chlorobenzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Chlorobromomethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Chlorodibromomethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Chloroethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Chloroform	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Chloromethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
cis-1,2-Dichloroethene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
cis-1,3-Dichloropropene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Dibromomethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Dichlorobromomethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Dichlorodifluoromethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
EDB	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
EDC	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Ethylbenzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Hexachlorobutadiene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Isopropylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Methyl tert-butyl ether	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Methylene Chloride	ND		13		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
m-Xylene & p-Xylene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Naphthalene	ND		4.5		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
n-Butylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
N-Propylbenzene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 98'**

**Lab Sample ID: 580-40520-5**

**Date Collected: 09/24/13 08:00**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 90.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
sec-Butylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Styrene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
tert-Butylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Tetrachloroethene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Toluene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
trans-1,2-Dichloroethene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
trans-1,3-Dichloropropene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Trichloroethene	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Trichlorofluoromethane	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1
Vinyl chloride	ND		0.90		ug/Kg	☼	09/25/13 17:30	10/02/13 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 120	09/25/13 17:30	10/02/13 03:22	1
Ethylbenzene-d10	95		70 - 120	09/25/13 17:30	10/02/13 03:22	1
Fluorobenzene (Surr)	95		80 - 120	09/25/13 17:30	10/02/13 03:22	1
Toluene-d8 (Surr)	92		80 - 120	09/25/13 17:30	10/02/13 03:22	1
Trifluorotoluene (Surr)	91		65 - 140	09/25/13 17:30	10/02/13 03:22	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.6		mg/Kg	☼	09/30/13 14:46	09/30/13 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	09/30/13 14:46	09/30/13 18:08	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/28/13 14:11	10/01/13 17:21	1
Motor Oil (>C24-C36)	ND		52		mg/Kg	☼	09/28/13 14:11	10/01/13 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	09/28/13 14:11	10/01/13 17:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			09/27/13 12:27	1
Percent Moisture	9.4		0.10		%			09/27/13 12:27	1

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 108'**

**Lab Sample ID: 580-40520-6**

**Date Collected: 09/24/13 09:05**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 91.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,1,1-Trichloroethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,1,1,2,2-Tetrachloroethane	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,1,2-Trichloroethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,1-Dichloroethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,1-Dichloroethene	ND		5.7		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,1-Dichloropropene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2,3-Trichlorobenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2,3-Trichloropropane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2,4-Trichlorobenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2,4-Trimethylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2-Dibromo-3-Chloropropane	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,2-Dichloropropane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,3,5-Trimethylbenzene	ND		5.7		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,3-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,3-Dichloropropane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
1,4-Dichlorobenzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
2,2-Dichloropropane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
2-Chlorotoluene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
4-Chlorotoluene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
4-Isopropyltoluene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Benzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Bromobenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Bromoform	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Bromomethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Carbon tetrachloride	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Chlorobenzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Chlorobromomethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Chlorodibromomethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Chloroethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Chloroform	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Chloromethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
cis-1,2-Dichloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Dibromomethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Dichlorobromomethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Dichlorodifluoromethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
EDB	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
EDC	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Ethylbenzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Hexachlorobutadiene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Isopropylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Methyl tert-butyl ether	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Methylene Chloride	ND		17		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
m-Xylene & p-Xylene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Naphthalene	ND		5.7		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
n-Butylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
N-Propylbenzene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 108'**

**Lab Sample ID: 580-40520-6**

**Date Collected: 09/24/13 09:05**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 91.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
sec-Butylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Styrene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
tert-Butylbenzene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Tetrachloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Toluene	ND		2.3		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
trans-1,2-Dichloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
trans-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Trichloroethene	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Trichlorofluoromethane	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Vinyl chloride	ND		1.1		ug/Kg	☼	09/25/13 17:30	10/02/13 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 120				09/25/13 17:30	10/02/13 03:45	1
Ethylbenzene-d10	99		70 - 120				09/25/13 17:30	10/02/13 03:45	1
Fluorobenzene (Surr)	95		80 - 120				09/25/13 17:30	10/02/13 03:45	1
Toluene-d8 (Surr)	86		80 - 120				09/25/13 17:30	10/02/13 03:45	1
Trifluorotoluene (Surr)	87		65 - 140				09/25/13 17:30	10/02/13 03:45	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		3.2		mg/Kg	☼	09/30/13 14:46	09/30/13 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150				09/30/13 14:46	09/30/13 18:30	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		27		mg/Kg	☼	09/28/13 14:11	10/01/13 17:38	1
Motor Oil (>C24-C36)	ND		54		mg/Kg	☼	09/28/13 14:11	10/01/13 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 150				09/28/13 14:11	10/01/13 17:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			09/27/13 12:27	1
Percent Moisture	8.5		0.10		%			09/27/13 12:27	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 118'**

**Lab Sample ID: 580-40520-7**

**Date Collected: 09/24/13 10:10**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 84.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,1,1-Trichloroethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,1,1,2,2-Tetrachloroethane	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,1,2-Trichloroethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,1-Dichloroethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,1-Dichloroethene	ND		7.2		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,1-Dichloropropene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2,3-Trichlorobenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2,3-Trichloropropane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2,4-Trichlorobenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2,4-Trimethylbenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2-Dibromo-3-Chloropropane	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2-Dichlorobenzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,2-Dichloropropane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,3,5-Trimethylbenzene	ND		7.2		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,3-Dichlorobenzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,3-Dichloropropane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
1,4-Dichlorobenzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
2,2-Dichloropropane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
2-Chlorotoluene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
4-Chlorotoluene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
4-Isopropyltoluene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Benzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Bromobenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Bromoform	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Bromomethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Carbon tetrachloride	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Chlorobenzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Chlorobromomethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Chlorodibromomethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Chloroethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Chloroform	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Chloromethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
cis-1,2-Dichloroethene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
cis-1,3-Dichloropropene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Dibromomethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Dichlorobromomethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Dichlorodifluoromethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
EDB	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
EDC	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Ethylbenzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Hexachlorobutadiene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Isopropylbenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Methyl tert-butyl ether	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Methylene Chloride	ND		22		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
m-Xylene & p-Xylene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Naphthalene	ND		7.2		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
n-Butylbenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
N-Propylbenzene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 118'**

**Lab Sample ID: 580-40520-7**

**Date Collected: 09/24/13 10:10**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 84.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
sec-Butylbenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Styrene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
tert-Butylbenzene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Tetrachloroethene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Toluene	ND		2.9		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
trans-1,2-Dichloroethene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
trans-1,3-Dichloropropene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Trichloroethene	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Trichlorofluoromethane	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1
Vinyl chloride	ND		1.4		ug/Kg	☼	09/25/13 17:30	10/02/13 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 120	09/25/13 17:30	10/02/13 04:08	1
Ethylbenzene-d10	91		70 - 120	09/25/13 17:30	10/02/13 04:08	1
Fluorobenzene (Surr)	98		80 - 120	09/25/13 17:30	10/02/13 04:08	1
Toluene-d8 (Surr)	89		80 - 120	09/25/13 17:30	10/02/13 04:08	1
Trifluorotoluene (Surr)	91		65 - 140	09/25/13 17:30	10/02/13 04:08	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.8		mg/Kg	☼	09/30/13 14:46	09/30/13 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150	09/30/13 14:46	09/30/13 18:52	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		29		mg/Kg	☼	09/28/13 14:11	10/01/13 18:14	1
Motor Oil (>C24-C36)	ND		58		mg/Kg	☼	09/28/13 14:11	10/01/13 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	09/28/13 14:11	10/01/13 18:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10		%			09/27/13 13:08	1
Percent Moisture	16		0.10		%			09/27/13 13:08	1

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 128'**

**Lab Sample ID: 580-40520-8**

**Date Collected: 09/24/13 11:00**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 90.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,1,1-Trichloroethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,1,1,2,2-Tetrachloroethane	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,1,2-Trichloroethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,1-Dichloroethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,1-Dichloroethene	ND		4.5		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,1-Dichloropropene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2,3-Trichlorobenzene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2,3-Trichloropropane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2,4-Trichlorobenzene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2-Dibromo-3-Chloropropane	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2-Dichlorobenzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,2-Dichloropropane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,3-Dichlorobenzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,3-Dichloropropane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
1,4-Dichlorobenzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
2,2-Dichloropropane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
2-Chlorotoluene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
4-Chlorotoluene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
4-Isopropyltoluene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Benzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Bromobenzene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Bromoform	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Bromomethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Carbon tetrachloride	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Chlorobenzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Chlorobromomethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Chlorodibromomethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Chloroethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Chloroform	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Chloromethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
cis-1,2-Dichloroethene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
cis-1,3-Dichloropropene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Dibromomethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Dichlorobromomethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Dichlorodifluoromethane	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
EDB	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
EDC	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Ethylbenzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Hexachlorobutadiene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Isopropylbenzene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Methyl tert-butyl ether	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Methylene Chloride	ND		13		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
m-Xylene & p-Xylene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
Naphthalene	ND		4.5		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
n-Butylbenzene	ND		1.8		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1
N-Propylbenzene	ND		0.89		ug/Kg	*	09/25/13 17:30	10/02/13 04:32	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 128'**

**Lab Sample ID: 580-40520-8**

**Date Collected: 09/24/13 11:00**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 90.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
sec-Butylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Styrene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
tert-Butylbenzene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Tetrachloroethene	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Toluene	ND		1.8		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
trans-1,2-Dichloroethene	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
trans-1,3-Dichloropropene	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Trichloroethene	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Trichlorofluoromethane	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Vinyl chloride	ND		0.89		ug/Kg	☼	09/25/13 17:30	10/02/13 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 120				09/25/13 17:30	10/02/13 04:32	1
Ethylbenzene-d10	97		70 - 120				09/25/13 17:30	10/02/13 04:32	1
Fluorobenzene (Surr)	93		80 - 120				09/25/13 17:30	10/02/13 04:32	1
Toluene-d8 (Surr)	89		80 - 120				09/25/13 17:30	10/02/13 04:32	1
Trifluorotoluene (Surr)	91		65 - 140				09/25/13 17:30	10/02/13 04:32	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg	☼	09/30/13 14:46	09/30/13 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150				09/30/13 14:46	09/30/13 19:58	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		26		mg/Kg	☼	09/28/13 14:11	10/01/13 18:32	1
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	09/28/13 14:11	10/01/13 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150				09/28/13 14:11	10/01/13 18:32	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.3		1.2		mg/Kg	☼	09/27/13 14:50	09/28/13 23:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			09/27/13 13:08	1
Percent Moisture	9.6		0.10		%			09/27/13 13:08	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-146309/1-A**

**Matrix: Solid**

**Analysis Batch: 146292**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 146309**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,1-Dichloroethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,1-Dichloropropene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2,3-Trichloropropane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,2-Dichloropropane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,3-Dichloropropane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
2,2-Dichloropropane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
2-Chlorotoluene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
4-Chlorotoluene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
4-Isopropyltoluene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Benzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Bromobenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Bromoform	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Bromomethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Carbon tetrachloride	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Chlorobenzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Chlorobromomethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Chlorodibromomethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Chloroethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Chloroform	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Chloromethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Dibromomethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Dichlorobromomethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Dichlorodifluoromethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
EDB	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
EDC	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Ethylbenzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Hexachlorobutadiene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Isopropylbenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Methyl tert-butyl ether	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Methylene Chloride	ND		15		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Naphthalene	ND		5.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
n-Butylbenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-146309/1-A

Matrix: Solid

Analysis Batch: 146292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 146309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
o-Xylene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
sec-Butylbenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Styrene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
tert-Butylbenzene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Tetrachloroethene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Toluene	ND		2.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
trans-1,3-Dichloropropene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Trichloroethene	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Trichlorofluoromethane	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1
Vinyl chloride	ND		1.0		ug/Kg		10/01/13 17:45	10/01/13 23:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 120	10/01/13 17:45	10/01/13 23:52	1
Ethylbenzene-d10	96		70 - 120	10/01/13 17:45	10/01/13 23:52	1
Fluorobenzene (Surr)	99		80 - 120	10/01/13 17:45	10/01/13 23:52	1
Toluene-d8 (Surr)	88		80 - 120	10/01/13 17:45	10/01/13 23:52	1
Trifluorotoluene (Surr)	98		65 - 140	10/01/13 17:45	10/01/13 23:52	1

Lab Sample ID: LCS 580-146309/2-A

Matrix: Solid

Analysis Batch: 146292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	30.0	30.6		ug/Kg		102	72 - 123
1,1,1-Trichloroethane	30.0	31.0		ug/Kg		103	63 - 135
1,1,1,2-Tetrachloroethane	30.0	30.8		ug/Kg		103	73 - 125
1,1,2-Trichloroethane	30.0	31.8		ug/Kg		106	77 - 124
1,1-Dichloroethane	30.0	27.6		ug/Kg		92	70 - 128
1,1-Dichloroethene	30.0	27.8		ug/Kg		93	70 - 133
1,1-Dichloropropene	30.0	28.6		ug/Kg		95	77 - 123
1,2,3-Trichlorobenzene	30.0	31.1		ug/Kg		104	61 - 130
1,2,3-Trichloropropane	30.0	30.6		ug/Kg		102	77 - 123
1,2,4-Trichlorobenzene	30.0	30.7		ug/Kg		102	61 - 130
1,2,4-Trimethylbenzene	30.0	30.6		ug/Kg		102	79 - 124
1,2-Dibromo-3-Chloropropane	30.0	31.5		ug/Kg		105	53 - 132
1,2-Dichlorobenzene	30.0	31.3		ug/Kg		104	79 - 117
1,2-Dichloropropane	30.0	30.5		ug/Kg		102	76 - 161
1,3,5-Trimethylbenzene	30.0	34.8		ug/Kg		116	80 - 125
1,3-Dichlorobenzene	30.0	30.9		ug/Kg		103	79 - 119
1,3-Dichloropropane	30.0	31.4		ug/Kg		105	77 - 123
1,4-Dichlorobenzene	30.0	29.4		ug/Kg		98	79 - 117
2,2-Dichloropropane	30.0	33.4		ug/Kg		111	56 - 144
2-Chlorotoluene	30.0	32.5		ug/Kg		108	79 - 122
4-Chlorotoluene	30.0	33.6		ug/Kg		112	80 - 122
4-Isopropyltoluene	30.0	30.0		ug/Kg		100	78 - 126
Benzene	30.0	30.1		ug/Kg		100	70 - 128

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-146309/2-A

Matrix: Solid

Analysis Batch: 146292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 146309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	30.0	30.3		ug/Kg		101	80 - 120
Bromoform	30.0	32.8		ug/Kg		109	50 - 124
Bromomethane	30.0	29.1		ug/Kg		97	57 - 148
Carbon tetrachloride	30.0	29.8		ug/Kg		99	59 - 145
Chlorobenzene	30.0	29.3		ug/Kg		98	75 - 120
Chlorobromomethane	30.0	29.0		ug/Kg		97	78 - 123
Chlorodibromomethane	30.0	33.9		ug/Kg		113	69 - 129
Chloroethane	30.0	28.2		ug/Kg		94	48 - 167
Chloroform	30.0	30.6		ug/Kg		102	78 - 125
Chloromethane	30.0	29.1		ug/Kg		97	55 - 136
cis-1,2-Dichloroethene	30.0	29.1		ug/Kg		97	70 - 130
cis-1,3-Dichloropropene	30.0	34.1		ug/Kg		114	69 - 129
Dibromomethane	30.0	33.8		ug/Kg		113	78 - 126
Dichlorobromomethane	30.0	32.6		ug/Kg		109	58 - 133
Dichlorodifluoromethane	30.0	28.0		ug/Kg		93	38 - 150
EDB	30.0	33.0		ug/Kg		110	69 - 126
EDC	30.0	32.6		ug/Kg		109	71 - 128
Ethylbenzene	30.0	30.5		ug/Kg		102	78 - 126
Hexachlorobutadiene	30.0	29.9		ug/Kg		100	68 - 134
Isopropylbenzene	30.0	30.2		ug/Kg		101	79 - 127
Methyl tert-butyl ether	30.0	27.8		ug/Kg		93	65 - 125
Methylene Chloride	30.0	27.0		ug/Kg		90	57 - 146
m-Xylene & p-Xylene	30.0	31.7		ug/Kg		106	78 - 126
Naphthalene	30.0	33.0		ug/Kg		110	14 - 170
n-Butylbenzene	30.0	29.1		ug/Kg		97	78 - 128
N-Propylbenzene	30.0	32.6		ug/Kg		109	81 - 127
o-Xylene	30.0	36.4		ug/Kg		121	77 - 127
sec-Butylbenzene	30.0	30.1		ug/Kg		100	78 - 128
Styrene	30.0	31.6		ug/Kg		105	79 - 127
tert-Butylbenzene	30.0	34.7		ug/Kg		116	71 - 136
Tetrachloroethene	30.0	31.6		ug/Kg		105	56 - 150
Toluene	30.0	31.8		ug/Kg		106	75 - 126
trans-1,2-Dichloroethene	30.0	26.7		ug/Kg		89	76 - 131
trans-1,3-Dichloropropene	30.0	27.8		ug/Kg		93	72 - 129
Trichloroethene	30.0	32.0		ug/Kg		107	83 - 124
Trichlorofluoromethane	30.0	29.5		ug/Kg		98	47 - 165
Vinyl chloride	30.0	29.7		ug/Kg		99	67 - 131

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 120
Ethylbenzene-d10	103		70 - 120
Fluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	106		80 - 120
Trifluorotoluene (Surr)	103		65 - 140

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-146309/3-A

Matrix: Solid

Analysis Batch: 146292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 146309

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	30.0	31.2		ug/Kg		104	72 - 123	2	20	
1,1,1-Trichloroethane	30.0	29.6		ug/Kg		99	63 - 135	4	20	
1,1,2,2-Tetrachloroethane	30.0	29.2		ug/Kg		97	73 - 125	5	22	
1,1,2-Trichloroethane	30.0	30.4		ug/Kg		101	77 - 124	4	18	
1,1-Dichloroethane	30.0	30.8		ug/Kg		103	70 - 128	11	21	
1,1-Dichloroethene	30.0	30.7		ug/Kg		102	70 - 133	10	23	
1,1-Dichloropropene	30.0	29.2		ug/Kg		97	77 - 123	2	16	
1,2,3-Trichlorobenzene	30.0	29.9		ug/Kg		100	61 - 130	4	23	
1,2,3-Trichloropropane	30.0	28.4		ug/Kg		95	77 - 123	7	23	
1,2,4-Trichlorobenzene	30.0	29.2		ug/Kg		97	61 - 130	5	22	
1,2,4-Trimethylbenzene	30.0	30.2		ug/Kg		101	79 - 124	1	18	
1,2-Dibromo-3-Chloropropane	30.0	29.9		ug/Kg		100	53 - 132	5	27	
1,2-Dichlorobenzene	30.0	30.5		ug/Kg		102	79 - 117	2	17	
1,2-Dichloropropane	30.0	30.8		ug/Kg		103	76 - 161	1	15	
1,3,5-Trimethylbenzene	30.0	34.2		ug/Kg		114	80 - 125	2	18	
1,3-Dichlorobenzene	30.0	30.2		ug/Kg		101	79 - 119	2	17	
1,3-Dichloropropane	30.0	30.2		ug/Kg		101	77 - 123	4	19	
1,4-Dichlorobenzene	30.0	28.6		ug/Kg		95	79 - 117	3	18	
2,2-Dichloropropane	30.0	32.7		ug/Kg		109	56 - 144	2	21	
2-Chlorotoluene	30.0	32.4		ug/Kg		108	79 - 122	0	18	
4-Chlorotoluene	30.0	32.8		ug/Kg		109	80 - 122	2	18	
4-Isopropyltoluene	30.0	29.5		ug/Kg		98	78 - 126	2	18	
Benzene	30.0	31.1		ug/Kg		104	70 - 128	3	19	
Bromobenzene	30.0	31.0		ug/Kg		103	80 - 120	2	19	
Bromoform	30.0	31.9		ug/Kg		106	50 - 124	3	25	
Bromomethane	30.0	30.1		ug/Kg		100	57 - 148	3	29	
Carbon tetrachloride	30.0	30.8		ug/Kg		103	59 - 145	3	19	
Chlorobenzene	30.0	29.7		ug/Kg		99	75 - 120	1	21	
Chlorobromomethane	30.0	28.3		ug/Kg		94	78 - 123	3	19	
Chlorodibromomethane	30.0	32.8		ug/Kg		109	69 - 129	3	23	
Chloroethane	30.0	32.3		ug/Kg		108	48 - 167	13	53	
Chloroform	30.0	29.4		ug/Kg		98	78 - 125	4	17	
Chloromethane	30.0	32.2		ug/Kg		107	55 - 136	10	26	
cis-1,2-Dichloroethene	30.0	29.9		ug/Kg		100	70 - 130	2	19	
cis-1,3-Dichloropropene	30.0	33.4		ug/Kg		111	69 - 129	2	19	
Dibromomethane	30.0	31.2		ug/Kg		104	78 - 126	8	18	
Dichlorobromomethane	30.0	31.6		ug/Kg		105	58 - 133	3	19	
Dichlorodifluoromethane	30.0	29.0		ug/Kg		97	38 - 150	4	26	
EDB	30.0	30.9		ug/Kg		103	69 - 126	6	21	
EDC	30.0	31.4		ug/Kg		105	71 - 128	4	18	
Ethylbenzene	30.0	30.7		ug/Kg		102	78 - 126	1	23	
Hexachlorobutadiene	30.0	28.8		ug/Kg		96	68 - 134	4	21	
Isopropylbenzene	30.0	29.7		ug/Kg		99	79 - 127	2	20	
Methyl tert-butyl ether	30.0	25.8		ug/Kg		86	65 - 125	7	30	
Methylene Chloride	30.0	28.3		ug/Kg		94	57 - 146	4	21	
m-Xylene & p-Xylene	30.0	31.3		ug/Kg		104	78 - 126	1	23	
Naphthalene	30.0	33.0		ug/Kg		110	14 - 170	0	50	
n-Butylbenzene	30.0	28.8		ug/Kg		96	78 - 128	1	17	

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** LCSD 580-146309/3-A  
**Matrix:** Solid  
**Analysis Batch:** 146292

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 146309

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	30.0	32.5		ug/Kg		108	81 - 127	0	20
o-Xylene	30.0	34.8		ug/Kg		116	77 - 127	4	22
sec-Butylbenzene	30.0	30.1		ug/Kg		100	78 - 128	0	17
Styrene	30.0	30.5		ug/Kg		102	79 - 127	4	21
tert-Butylbenzene	30.0	35.0		ug/Kg		117	71 - 136	1	27
Tetrachloroethene	30.0	31.6		ug/Kg		105	56 - 150	0	27
Toluene	30.0	31.9		ug/Kg		106	75 - 126	0	19
trans-1,2-Dichloroethene	30.0	27.0		ug/Kg		90	76 - 131	1	18
trans-1,3-Dichloropropene	30.0	27.2		ug/Kg		91	72 - 129	2	20
Trichloroethene	30.0	30.8		ug/Kg		103	83 - 124	4	17
Trichlorofluoromethane	30.0	31.4		ug/Kg		105	47 - 165	6	54
Vinyl chloride	30.0	32.0		ug/Kg		107	67 - 131	7	22

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	103		70 - 120
Ethylbenzene-d10	106		70 - 120
Fluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	107		80 - 120
Trifluorotoluene (Surr)	100		65 - 140

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID:** MB 580-146177/1-A  
**Matrix:** Solid  
**Analysis Batch:** 146181

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 146177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		09/30/13 14:46	09/30/13 15:26	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	09/30/13 14:46	09/30/13 15:26	1
Trifluorotoluene (Surr)	121		50 - 150	09/30/13 14:46	09/30/13 15:26	1

**Lab Sample ID:** LCS 580-146177/17-A  
**Matrix:** Solid  
**Analysis Batch:** 146181

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 146177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	36.3		mg/Kg		91	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	97		50 - 150
Trifluorotoluene (Surr)	116		50 - 150

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 580-146177/3-A**

**Matrix: Solid**

**Analysis Batch: 146181**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 146177**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.0	37.8		mg/Kg		95	68 - 120	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		50 - 150
Trifluorotoluene (Surr)	120		50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-146051/1-A**

**Matrix: Solid**

**Analysis Batch: 146219**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 146051**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25		mg/Kg		09/28/13 14:11	10/01/13 14:58	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		09/28/13 14:11	10/01/13 14:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	09/28/13 14:11	10/01/13 14:58	1

**Lab Sample ID: LCS 580-146051/2-A**

**Matrix: Solid**

**Analysis Batch: 146219**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 146051**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	488		mg/Kg		98	70 - 125
Motor Oil (>C24-C36)	500	476		mg/Kg		95	64 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	85		50 - 150

**Lab Sample ID: LCSD 580-146051/3-A**

**Matrix: Solid**

**Analysis Batch: 146219**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 146051**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	452		mg/Kg		90	70 - 125	8	16
Motor Oil (>C24-C36)	500	443		mg/Kg		89	64 - 127	7	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	78		50 - 150

**Lab Sample ID: 580-40520-1 DU**

**Matrix: Solid**

**Analysis Batch: 146219**

**Client Sample ID: MW-2 @ 48'**

**Prep Type: Total/NA**

**Prep Batch: 146051**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
#2 Diesel (C10-C24)	ND		ND		mg/Kg	☼	NC	35

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 580-40520-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 146219**

**Client Sample ID: MW-2 @ 48'**  
**Prep Type: Total/NA**  
**Prep Batch: 146051**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Motor Oil (>C24-C36)	ND		ND		mg/Kg	*	NC	35
<b>Surrogate</b>	<b>%Recovery</b>	<b>DU</b>	<b>DU</b>	<b>Qualifier</b>	<b>Limits</b>			
<i>o</i> -Terphenyl	82				50 - 150			

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 580-146024/23-A**  
**Matrix: Solid**  
**Analysis Batch: 146120**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 146024**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		1.5		mg/Kg		09/27/13 14:50	09/28/13 21:57	1

**Lab Sample ID: LCS 580-146024/24-A**  
**Matrix: Solid**  
**Analysis Batch: 146120**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 146024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: LCSD 580-146024/25-A**  
**Matrix: Solid**  
**Analysis Batch: 146120**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 146024**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Client Sample ID: MW-2 @ 48'

Date Collected: 09/24/13 14:20

Date Received: 09/25/13 16:30

## Lab Sample ID: 580-40520-1

Matrix: Solid  
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 01:48	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 16:41	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 15:52	JL1	TAL SEA
Total/NA	Prep	3050B			146024	09/27/13 14:50	PAB	TAL SEA
Total/NA	Analysis	6010B		1	146120	09/28/13 23:27	HJM	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 12:27	JJP	TAL SEA

## Client Sample ID: MW-2 @ 68'

Date Collected: 09/24/13 15:40

Date Received: 09/25/13 16:30

## Lab Sample ID: 580-40520-2

Matrix: Solid  
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 02:12	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 17:03	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 16:27	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 12:27	JJP	TAL SEA

## Client Sample ID: MW-2 @ 78'

Date Collected: 09/24/13 16:30

Date Received: 09/25/13 16:30

## Lab Sample ID: 580-40520-3

Matrix: Solid  
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 02:35	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 17:25	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 16:45	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 12:27	JJP	TAL SEA

## Client Sample ID: MW-2 @ 88'

Date Collected: 09/24/13 17:10

Date Received: 09/25/13 16:30

## Lab Sample ID: 580-40520-4

Matrix: Solid  
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 02:58	JMB	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Client Sample ID: MW-2 @ 88'

Lab Sample ID: 580-40520-4

Date Collected: 09/24/13 17:10

Matrix: Solid

Date Received: 09/25/13 16:30

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 17:47	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 17:03	JL1	TAL SEA
Total/NA	Prep	3050B			146024	09/27/13 14:50	PAB	TAL SEA
Total/NA	Analysis	6010B		1	146120	09/28/13 23:30	HJM	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 12:27	JJP	TAL SEA

## Client Sample ID: MW-2 @ 98'

Lab Sample ID: 580-40520-5

Date Collected: 09/24/13 08:00

Matrix: Solid

Date Received: 09/25/13 16:30

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 03:22	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 18:08	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 17:21	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 12:27	JJP	TAL SEA

## Client Sample ID: MW-2 @ 108'

Lab Sample ID: 580-40520-6

Date Collected: 09/24/13 09:05

Matrix: Solid

Date Received: 09/25/13 16:30

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 03:45	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 18:30	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 17:38	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 12:27	JJP	TAL SEA

## Client Sample ID: MW-2 @ 118'

Lab Sample ID: 580-40520-7

Date Collected: 09/24/13 10:10

Matrix: Solid

Date Received: 09/25/13 16:30

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 04:08	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 18:52	NMR	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

**Client Sample ID: MW-2 @ 118'**

**Lab Sample ID: 580-40520-7**

**Date Collected: 09/24/13 10:10**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 18:14	JL1	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 13:08	JJP	TAL SEA

**Client Sample ID: MW-2 @ 128'**

**Lab Sample ID: 580-40520-8**

**Date Collected: 09/24/13 11:00**

**Matrix: Solid**

**Date Received: 09/25/13 16:30**

**Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			146309	09/25/13 17:30	JMB	TAL SEA
Total/NA	Analysis	8260B		1	146292	10/02/13 04:32	JMB	TAL SEA
Total/NA	Prep	5035			146177	09/30/13 14:46	NMR	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	146181	09/30/13 19:58	NMR	TAL SEA
Total/NA	Prep	3550B			146051	09/28/13 14:11	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	146219	10/01/13 18:32	JL1	TAL SEA
Total/NA	Prep	3050B			146024	09/27/13 14:50	PAB	TAL SEA
Total/NA	Analysis	6010B		1	146120	09/28/13 23:34	HJM	TAL SEA
Total/NA	Analysis	D 2216		1	145993	09/27/13 13:08	JJP	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

## Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K #6049 KENNEWICK, WA

TestAmerica Job ID: 580-40520-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-40520-1	MW-2 @ 48'	Solid	09/24/13 14:20	09/25/13 16:30
580-40520-2	MW-2 @ 68'	Solid	09/24/13 15:40	09/25/13 16:30
580-40520-3	MW-2 @ 78'	Solid	09/24/13 16:30	09/25/13 16:30
580-40520-4	MW-2 @ 88'	Solid	09/24/13 17:10	09/25/13 16:30
580-40520-5	MW-2 @ 98'	Solid	09/24/13 08:00	09/25/13 16:30
580-40520-6	MW-2 @ 108'	Solid	09/24/13 09:05	09/25/13 16:30
580-40520-7	MW-2 @ 118'	Solid	09/24/13 10:10	09/25/13 16:30
580-40520-8	MW-2 @ 128'	Solid	09/24/13 11:00	09/25/13 16:30



Client: **BUYES ENVIRONMENTAL**  
Address: **45 EAST MONTELEONE WAY**  
City: **PHOENIX** State: **AZ** Zip Code: **85012**  
Client Contact: **DAN BUYES** Telephone Number (Area Code)/Fax Number: **602-728-0707**  
Project Name and Location (State): **CIRCLE K #6049 KENNEDY HWY D-BUYES**  
Contract/Purchase Order/Quote No.: **DAN BUYES** Billing Contact: **D. BUYES** Lab Contact: **D. BUYES**

Sample ID and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Chain of Custody Number					
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl			NaOH	ZnAc/ NaOH			
1- MW-2 @ 48'	9/24/13	2:20p				X											
2- MW-2 @ 68'	9/24/13	3:40				X											
3- MW-2 @ 78'	9/24/13	4:30				X											
4- MW-2 @ 88'	9/24/13	5:10p				X											
5- MW-2 @ 98'	9/25/13	8:00am				X											
6- MW-2 @ 108'	9/25/13	9:05				X											
7- MW-2 @ 118'	9/25/13	10:10				X											
8- MW-2 @ 128'	9/25/13	11:00am				X											

Barcode: 580-40520 Chain of Custody

Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  Return To Client  Disposal By Lab

Special Instructions/Conditions of Receipt: **NWTPH-6X  
NWTPH-DX  
8260 FULL  
E2B  
LEAD**

Cooler/TB DigIR cor 4c unc 4.0  
Cooler Dsc Labmate @ Lab  
WetPacks Packing after  
Wife (just drop off)

QC Requirements (Specify):

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other

1. Relinquished By: *[Signature]* Date: **9/25/13** Time: **4:30pm**

2. Relinquished By: *[Signature]* Date: **9/25/13** Time: **10:30**

3. Relinquished By: *[Signature]* Date: **9/25/13** Time: **10:30**

Comments:

## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-40520-1

**Login Number: 40520**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Balles, Racheal M**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-60027-1

Client Project/Site: Circle K #6049 Kennewick

For:

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
6/16/2016 4:09:19 PM

Christabel Escarez, Project Manager I  
(253)922-2310  
[christabel.escarez@testamericainc.com](mailto:christabel.escarez@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

## Job ID: 580-60027-1

### Laboratory: TestAmerica Seattle

#### Narrative

#### Job Narrative 580-60027-1

#### Receipt

The samples were received on 6/3/2016 3:14 PM; the samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 0.1° C.

#### Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: VE-3@15' (580-60027-1), VE-3@25' (580-60027-2), VE-3@35' (580-60027-3), VE-3@45' (580-60027-4), VE-3@55' (580-60027-5), VE-3@65' (580-60027-6) and VE-3@75' (580-60027-7). The samples were logged in per container labels.

#### GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-219770 recovered above the upper control limit for Dichlorodifluoromethane, Methylene Chloride and 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: VE-3@15' (580-60027-1), VE-3@25' (580-60027-2), VE-3@35' (580-60027-3), VE-3@45' (580-60027-4), VE-3@55' (580-60027-5), VE-3@65' (580-60027-6), VE-3@75' (580-60027-7) and (CCVIS 580-219770/4).

Method(s) NWTPH-Gx: The following samples were analyzed at reduced volume due to spent containers that leaked during shipment.: VE-3@15' (580-60027-1), VE-3@25' (580-60027-2), and VE-3@45' (580-60027-4). The calculation was done using an initial volume adjustment rather than a dilution factor. The reporting limits have been adjusted accordingly.

Method(s) NWTPH-Gx: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: 2.5 mL of extract was used to analyze the following samples instead of the standard 1.075 mL: (LCS 580-219646/2-A) and (LCSD 580-219646/3-A). Both samples recover within control limits; therefore, the data have been reported.

Method(s) NWTPH-Gx: The closing CCV associated with analytical batch 580-219478 recovered below the lower control limit due to the use of a new primary gasoline standard which fails low. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovered within control limits, demonstrating instrument stability. There is insufficient volume to perform re-analysis; therefore, the data have been reported. The following samples are impacted: VE-3@15' (580-60027-1), VE-3@45' (580-60027-4), (CCV 580-219478/12) and (CCV 580-219478/21).

Method(s) NWTPH-Gx: The closing CCV associated with analytical batch 580-219672 recovered below the lower control limit due to the use of a new primary gasoline standard which fails low. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovered within control limits, demonstrating instrument stability. There is insufficient volume to perform re-analysis; therefore, the data have been reported. The following samples are impacted: VE-3@25' (580-60027-2), VE-3@35' (580-60027-3), VE-3@55' (580-60027-5), CCV 580-219672/12), (CCV 580-219672/22), (CCV 580-219672/31) and (CCVRT 580-219672/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@15'**

**Lab Sample ID: 580-60027-1**

**Date Collected: 06/01/16 08:30**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 96.5**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Chloromethane	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Vinyl chloride	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Bromomethane	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Chloroethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Trichlorofluoromethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1-Dichloroethene	ND		4.5		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Methylene Chloride	ND		13		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Methyl tert-butyl ether	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
trans-1,2-Dichloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1-Dichloroethane	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
2,2-Dichloropropane	ND		4.5		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
cis-1,2-Dichloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Chlorobromomethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Chloroform	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1,1-Trichloroethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Carbon tetrachloride	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1-Dichloropropene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Benzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
EDC	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Trichloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2-Dichloropropane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Dibromomethane	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Dichlorobromomethane	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
cis-1,3-Dichloropropene	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Toluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
trans-1,3-Dichloropropene	ND		9.0		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1,1,2-Trichloroethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Tetrachloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,3-Dichloropropane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Chlorodibromomethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
EDB	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Chlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1,1,2-Tetrachloroethane	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Ethylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
m-Xylene & p-Xylene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
o-Xylene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Styrene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Bromoform	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Isopropylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Bromobenzene	ND		9.0		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,1,2,2-Tetrachloroethane	ND		3.6		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2,3-Trichloropropane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
N-Propylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
2-Chlorotoluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
4-Chlorotoluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
tert-Butylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@15'**

**Lab Sample ID: 580-60027-1**

**Date Collected: 06/01/16 08:30**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 96.5**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
4-Isopropyltoluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,3-Dichlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,4-Dichlorobenzene	ND		0.90		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
n-Butylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2-Dichlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2-Dibromo-3-Chloropropane	ND		9.0		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2,4-Trichlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Hexachlorobutadiene	ND		2.7		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
Naphthalene	ND		9.0		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1
1,2,3-Trichlorobenzene	ND		2.7		ug/Kg	☼	06/12/16 15:51	06/13/16 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	97		65 - 140	06/12/16 15:51	06/13/16 15:30	1
Toluene-d8 (Surr)	99		80 - 120	06/12/16 15:51	06/13/16 15:30	1
1,2-Dichloroethane-d4 (Surr)	110		71 - 136	06/12/16 15:51	06/13/16 15:30	1
4-Bromofluorobenzene (Surr)	103		70 - 120	06/12/16 15:51	06/13/16 15:30	1
Dibromofluoromethane (Surr)	104		75 - 132	06/12/16 15:51	06/13/16 15:30	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		16		mg/Kg	☼	06/10/16 16:35	06/11/16 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150	06/10/16 16:35	06/11/16 00:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.5		0.1		%			06/10/16 09:01	1
Percent Moisture	3.5		0.1		%			06/10/16 09:01	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@25'**

**Lab Sample ID: 580-60027-2**

**Date Collected: 06/01/16 08:58**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 95.8**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Chloromethane	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Vinyl chloride	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Bromomethane	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Chloroethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Trichlorofluoromethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1-Dichloroethene	ND		4.6		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Methylene Chloride	ND		14		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Methyl tert-butyl ether	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
trans-1,2-Dichloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1-Dichloroethane	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
2,2-Dichloropropane	ND		4.6		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
cis-1,2-Dichloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Chlorobromomethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Chloroform	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1,1-Trichloroethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Carbon tetrachloride	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1-Dichloropropene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Benzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
EDC	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Trichloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2-Dichloropropane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Dibromomethane	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Dichlorobromomethane	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
cis-1,3-Dichloropropene	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Toluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
trans-1,3-Dichloropropene	ND		9.1		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1,1,2-Trichloroethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Tetrachloroethene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,3-Dichloropropane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Chlorodibromomethane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
EDB	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Chlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1,1,2-Tetrachloroethane	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Ethylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
m-Xylene & p-Xylene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
o-Xylene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Styrene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Bromoform	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Isopropylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Bromobenzene	ND		9.1		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,1,2,2-Tetrachloroethane	ND		3.7		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2,3-Trichloropropane	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
N-Propylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
2-Chlorotoluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
4-Chlorotoluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
tert-Butylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@25'**

**Lab Sample ID: 580-60027-2**

**Date Collected: 06/01/16 08:58**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 95.8**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
4-Isopropyltoluene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,3-Dichlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,4-Dichlorobenzene	ND		0.91		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
n-Butylbenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2-Dichlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2-Dibromo-3-Chloropropane	ND		9.1		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2,4-Trichlorobenzene	ND		1.8		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Hexachlorobutadiene	ND		2.7		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
Naphthalene	ND		9.1		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1
1,2,3-Trichlorobenzene	ND		2.7		ug/Kg	☼	06/12/16 15:51	06/13/16 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	98		65 - 140	06/12/16 15:51	06/13/16 15:58	1
Toluene-d8 (Surr)	100		80 - 120	06/12/16 15:51	06/13/16 15:58	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136	06/12/16 15:51	06/13/16 15:58	1
4-Bromofluorobenzene (Surr)	103		70 - 120	06/12/16 15:51	06/13/16 15:58	1
Dibromofluoromethane (Surr)	103		75 - 132	06/12/16 15:51	06/13/16 15:58	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		17		mg/Kg	☼	06/13/16 13:36	06/14/16 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150	06/13/16 13:36	06/14/16 03:53	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.8		0.1		%			06/10/16 09:01	1
Percent Moisture	4.2		0.1		%			06/10/16 09:01	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@35'**

**Lab Sample ID: 580-60027-3**

**Date Collected: 06/01/16 09:45**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 92.5**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Chloromethane	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Vinyl chloride	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Bromomethane	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Chloroethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Trichlorofluoromethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1-Dichloroethene	ND		4.3		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Methylene Chloride	ND		13		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Methyl tert-butyl ether	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
trans-1,2-Dichloroethene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1-Dichloroethane	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
2,2-Dichloropropane	ND		4.3		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
cis-1,2-Dichloroethene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Chlorobromomethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Chloroform	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1,1-Trichloroethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Carbon tetrachloride	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1-Dichloropropene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Benzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
EDC	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Trichloroethene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2-Dichloropropane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Dibromomethane	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Dichlorobromomethane	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
cis-1,3-Dichloropropene	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Toluene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
trans-1,3-Dichloropropene	ND		8.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1,1,2-Trichloroethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Tetrachloroethene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,3-Dichloropropane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Chlorodibromomethane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
EDB	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Chlorobenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1,1,2-Tetrachloroethane	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Ethylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
m-Xylene & p-Xylene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
o-Xylene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Styrene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Bromoform	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Isopropylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Bromobenzene	ND		8.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,1,2,2-Tetrachloroethane	ND		3.5		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2,3-Trichloropropane	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
N-Propylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
2-Chlorotoluene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
4-Chlorotoluene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
tert-Butylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2,4-Trimethylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@35'**

**Lab Sample ID: 580-60027-3**

**Date Collected: 06/01/16 09:45**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 92.5**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
4-Isopropyltoluene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,3-Dichlorobenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,4-Dichlorobenzene	ND		0.87		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
n-Butylbenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2-Dichlorobenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2-Dibromo-3-Chloropropane	ND		8.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Hexachlorobutadiene	ND		2.6		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
Naphthalene	ND		8.7		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1
1,2,3-Trichlorobenzene	ND		2.6		ug/Kg	☼	06/12/16 15:51	06/13/16 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	100		65 - 140	06/12/16 15:51	06/13/16 16:32	1
Toluene-d8 (Surr)	99		80 - 120	06/12/16 15:51	06/13/16 16:32	1
1,2-Dichloroethane-d4 (Surr)	106		71 - 136	06/12/16 15:51	06/13/16 16:32	1
4-Bromofluorobenzene (Surr)	103		70 - 120	06/12/16 15:51	06/13/16 16:32	1
Dibromofluoromethane (Surr)	105		75 - 132	06/12/16 15:51	06/13/16 16:32	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg	☼	06/13/16 13:36	06/14/16 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150	06/13/16 13:36	06/14/16 05:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.5		0.1		%			06/10/16 09:01	1
Percent Moisture	7.5		0.1		%			06/10/16 09:01	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@45'**

**Lab Sample ID: 580-60027-4**

**Date Collected: 06/01/16 10:32**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 89.4**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Chloromethane	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Vinyl chloride	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Bromomethane	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Chloroethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Trichlorofluoromethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1-Dichloroethene	ND		5.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Methylene Chloride	ND		16		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Methyl tert-butyl ether	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
trans-1,2-Dichloroethene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1-Dichloroethane	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
2,2-Dichloropropane	ND		5.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
cis-1,2-Dichloroethene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Chlorobromomethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Chloroform	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1,1-Trichloroethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Carbon tetrachloride	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1-Dichloropropene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Benzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
EDC	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Trichloroethene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2-Dichloropropane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Dibromomethane	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Dichlorobromomethane	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Toluene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
trans-1,3-Dichloropropene	ND		11		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1,2-Trichloroethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Tetrachloroethene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,3-Dichloropropane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Chlorodibromomethane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
EDB	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Chlorobenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Ethylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
m-Xylene & p-Xylene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
o-Xylene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Styrene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Bromoform	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Isopropylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Bromobenzene	ND		11		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2,3-Trichloropropane	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
N-Propylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
2-Chlorotoluene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
4-Chlorotoluene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,3,5-Trimethylbenzene	ND		5.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
tert-Butylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2,4-Trimethylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@45'**

**Lab Sample ID: 580-60027-4**

**Date Collected: 06/01/16 10:32**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 89.4**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
4-Isopropyltoluene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,3-Dichlorobenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,4-Dichlorobenzene	ND		1.1		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
n-Butylbenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2-Dichlorobenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2,4-Trichlorobenzene	ND		2.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Hexachlorobutadiene	ND		3.3		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
Naphthalene	ND		11		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1
1,2,3-Trichlorobenzene	ND		3.3		ug/Kg	☼	06/12/16 15:51	06/13/16 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	99		65 - 140	06/12/16 15:51	06/13/16 17:00	1
Toluene-d8 (Surr)	98		80 - 120	06/12/16 15:51	06/13/16 17:00	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/12/16 15:51	06/13/16 17:00	1
4-Bromofluorobenzene (Surr)	102		70 - 120	06/12/16 15:51	06/13/16 17:00	1
Dibromofluoromethane (Surr)	102		75 - 132	06/12/16 15:51	06/13/16 17:00	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		10		mg/Kg	☼	06/10/16 16:35	06/11/16 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	06/10/16 16:35	06/11/16 02:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.4		0.1		%			06/10/16 09:01	1
Percent Moisture	10.6		0.1		%			06/10/16 09:01	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@55'**

**Lab Sample ID: 580-60027-5**

**Date Collected: 06/01/16 12:08**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 73.5**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Chloromethane	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Vinyl chloride	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Bromomethane	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Chloroethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Trichlorofluoromethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1-Dichloroethene	ND		7.0		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Methylene Chloride	ND		21		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Methyl tert-butyl ether	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
trans-1,2-Dichloroethene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1-Dichloroethane	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
2,2-Dichloropropane	ND		7.0		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
cis-1,2-Dichloroethene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Chlorobromomethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Chloroform	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1,1-Trichloroethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Carbon tetrachloride	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1-Dichloropropene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Benzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
EDC	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Trichloroethene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2-Dichloropropane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Dibromomethane	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Dichlorobromomethane	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
cis-1,3-Dichloropropene	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Toluene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
trans-1,3-Dichloropropene	ND		14		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1,2-Trichloroethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Tetrachloroethene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,3-Dichloropropane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Chlorodibromomethane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
EDB	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Chlorobenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1,1,2-Tetrachloroethane	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Ethylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
m-Xylene & p-Xylene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
o-Xylene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Styrene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Bromoform	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Isopropylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Bromobenzene	ND		14		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,1,2,2-Tetrachloroethane	ND		5.6		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2,3-Trichloropropane	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
N-Propylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
2-Chlorotoluene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
4-Chlorotoluene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,3,5-Trimethylbenzene	ND		7.0		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
tert-Butylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2,4-Trimethylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@55'**

**Lab Sample ID: 580-60027-5**

**Date Collected: 06/01/16 12:08**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 73.5**

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
4-Isopropyltoluene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,3-Dichlorobenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,4-Dichlorobenzene	ND		1.4		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
n-Butylbenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2-Dichlorobenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2,4-Trichlorobenzene	ND		2.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Hexachlorobutadiene	ND		4.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
Naphthalene	ND		14		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1
1,2,3-Trichlorobenzene	ND		4.2		ug/Kg	☼	06/12/16 15:51	06/13/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	99		65 - 140	06/12/16 15:51	06/13/16 17:28	1
Toluene-d8 (Surr)	99		80 - 120	06/12/16 15:51	06/13/16 17:28	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 136	06/12/16 15:51	06/13/16 17:28	1
4-Bromofluorobenzene (Surr)	101		70 - 120	06/12/16 15:51	06/13/16 17:28	1
Dibromofluoromethane (Surr)	103		75 - 132	06/12/16 15:51	06/13/16 17:28	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		8.6		mg/Kg	☼	06/13/16 13:36	06/14/16 06:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	06/13/16 13:36	06/14/16 06:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73.5		0.1		%			06/10/16 09:01	1
Percent Moisture	26.5		0.1		%			06/10/16 09:01	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@65'**

**Lab Sample ID: 580-60027-6**

**Date Collected: 06/01/16 13:55**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 93.8**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Chloromethane	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Vinyl chloride	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Bromomethane	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Chloroethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Trichlorofluoromethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1-Dichloroethene	ND		4.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Methylene Chloride	ND		14		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Methyl tert-butyl ether	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
trans-1,2-Dichloroethene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1-Dichloroethane	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
2,2-Dichloropropane	ND		4.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
cis-1,2-Dichloroethene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Chlorobromomethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Chloroform	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1,1-Trichloroethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Carbon tetrachloride	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1-Dichloropropene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Benzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
EDC	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Trichloroethene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2-Dichloropropane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Dibromomethane	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Dichlorobromomethane	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
cis-1,3-Dichloropropene	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Toluene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
trans-1,3-Dichloropropene	ND		9.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1,2-Trichloroethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Tetrachloroethene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,3-Dichloropropane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Chlorodibromomethane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
EDB	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Chlorobenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1,1,2-Tetrachloroethane	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Ethylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
m-Xylene & p-Xylene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
o-Xylene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Styrene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Bromoform	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Isopropylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Bromobenzene	ND		9.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,1,2,2-Tetrachloroethane	ND		3.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2,3-Trichloropropane	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
N-Propylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
2-Chlorotoluene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
4-Chlorotoluene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
tert-Butylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@65'**

**Lab Sample ID: 580-60027-6**

**Date Collected: 06/01/16 13:55**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 93.8**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
4-Isopropyltoluene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,3-Dichlorobenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,4-Dichlorobenzene	ND		0.95		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
n-Butylbenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2-Dichlorobenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2-Dibromo-3-Chloropropane	ND		9.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Hexachlorobutadiene	ND		2.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
Naphthalene	ND		9.5		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
1,2,3-Trichlorobenzene	ND		2.9		ug/Kg	☼	06/12/16 15:51	06/13/16 17:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Trifluorotoluene (Surr)	100		65 - 140				06/12/16 15:51	06/13/16 17:55	1
Toluene-d8 (Surr)	100		80 - 120				06/12/16 15:51	06/13/16 17:55	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 136				06/12/16 15:51	06/13/16 17:55	1
4-Bromofluorobenzene (Surr)	102		70 - 120				06/12/16 15:51	06/13/16 17:55	1
Dibromofluoromethane (Surr)	105		75 - 132				06/12/16 15:51	06/13/16 17:55	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg	☼	06/13/16 13:36	06/14/16 06:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	98		50 - 150				06/13/16 13:36	06/14/16 06:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.8		0.1		%			06/10/16 09:01	1
Percent Moisture	6.2		0.1		%			06/10/16 09:01	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@75'**

**Lab Sample ID: 580-60027-7**

**Date Collected: 06/01/16 14:26**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 85.9**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Chloromethane	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Vinyl chloride	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Bromomethane	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Chloroethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Trichlorofluoromethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1-Dichloroethene	ND		5.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Methylene Chloride	ND		15		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Methyl tert-butyl ether	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
trans-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1-Dichloroethane	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
2,2-Dichloropropane	ND		5.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
cis-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Chlorobromomethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Chloroform	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1,1-Trichloroethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Carbon tetrachloride	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1-Dichloropropene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Benzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
EDC	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Trichloroethene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2-Dichloropropane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Dibromomethane	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Dichlorobromomethane	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Toluene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
trans-1,3-Dichloropropene	ND		10		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1,1,2-Trichloroethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Tetrachloroethene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,3-Dichloropropane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Chlorodibromomethane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
EDB	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Chlorobenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Ethylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
m-Xylene & p-Xylene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
o-Xylene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Styrene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Bromoform	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Isopropylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Bromobenzene	ND		10		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,1,2,2-Tetrachloroethane	ND		4.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2,3-Trichloropropane	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
N-Propylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
2-Chlorotoluene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
4-Chlorotoluene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,3,5-Trimethylbenzene	ND		5.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
tert-Butylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2,4-Trimethylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@75'**

**Lab Sample ID: 580-60027-7**

**Date Collected: 06/01/16 14:26**

**Matrix: Solid**

**Date Received: 06/03/16 15:14**

**Percent Solids: 85.9**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
4-Isopropyltoluene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,3-Dichlorobenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
n-Butylbenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2-Dichlorobenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Hexachlorobutadiene	ND		3.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
Naphthalene	ND		10		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1
1,2,3-Trichlorobenzene	ND		3.1		ug/Kg	☼	06/12/16 15:51	06/13/16 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	96		65 - 140	06/12/16 15:51	06/13/16 18:23	1
Toluene-d8 (Surr)	98		80 - 120	06/12/16 15:51	06/13/16 18:23	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 136	06/12/16 15:51	06/13/16 18:23	1
4-Bromofluorobenzene (Surr)	102		70 - 120	06/12/16 15:51	06/13/16 18:23	1
Dibromofluoromethane (Surr)	104		75 - 132	06/12/16 15:51	06/13/16 18:23	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.5		mg/Kg	☼	06/13/16 13:36	06/14/16 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	06/13/16 13:36	06/14/16 07:12	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1		%			06/10/16 09:01	1
Percent Moisture	14.1		0.1		%			06/10/16 09:01	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-219466/1-A**  
**Matrix: Solid**  
**Analysis Batch: 219478**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 219466**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.0		mg/Kg		06/10/16 16:35	06/10/16 18:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150				06/10/16 16:35	06/10/16 18:48	1

**Lab Sample ID: LCS 580-219466/2-A**  
**Matrix: Solid**  
**Analysis Batch: 219478**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 219466**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline	40.1	33.5		mg/Kg		84	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		50 - 150				

**Lab Sample ID: LCSD 580-219466/3-A**  
**Matrix: Solid**  
**Analysis Batch: 219478**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 219466**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline	40.1	34.1		mg/Kg		85	68 - 120	2	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		50 - 150						

**Lab Sample ID: MB 580-219646/1-A**  
**Matrix: Solid**  
**Analysis Batch: 219672**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 219646**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		1.7		mg/Kg		06/13/16 13:36	06/13/16 15:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150				06/13/16 13:36	06/13/16 15:39	1

**Lab Sample ID: LCS 580-219646/2-A**  
**Matrix: Solid**  
**Analysis Batch: 219672**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 219646**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline	40.1	37.3		mg/Kg		93	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		50 - 150				

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-219646/3-A  
 Matrix: Solid  
 Analysis Batch: 219672

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 219646

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.1	37.0		mg/Kg		92	68 - 120	1	25
<b>Surrogate</b>									
		<b>LCSD</b>	<b>LCSD</b>						
		<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>
4-Bromofluorobenzene (Surr)		109							50 - 150

- 1
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- 11

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@15'**

Date Collected: 06/01/16 08:30

Date Received: 06/03/16 15:14

**Lab Sample ID: 580-60027-1**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

**Client Sample ID: VE-3@15'**

Date Collected: 06/01/16 08:30

Date Received: 06/03/16 15:14

**Lab Sample ID: 580-60027-1**

Matrix: Solid

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219770	06/13/16 15:30	TL1	TAL SEA
Total/NA	Prep	5035			219466	06/10/16 16:35	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219478	06/11/16 00:44	HDK	TAL SEA

**Client Sample ID: VE-3@25'**

Date Collected: 06/01/16 08:58

Date Received: 06/03/16 15:14

**Lab Sample ID: 580-60027-2**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

**Client Sample ID: VE-3@25'**

Date Collected: 06/01/16 08:58

Date Received: 06/03/16 15:14

**Lab Sample ID: 580-60027-2**

Matrix: Solid

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219770	06/13/16 15:58	TL1	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 03:53	TL1	TAL SEA

**Client Sample ID: VE-3@35'**

Date Collected: 06/01/16 09:45

Date Received: 06/03/16 15:14

**Lab Sample ID: 580-60027-3**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

**Client Sample ID: VE-3@35'**

Date Collected: 06/01/16 09:45

Date Received: 06/03/16 15:14

**Lab Sample ID: 580-60027-3**

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

## Client Sample ID: VE-3@35'

Lab Sample ID: 580-60027-3

Date Collected: 06/01/16 09:45

Matrix: Solid

Date Received: 06/03/16 15:14

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	219770	06/13/16 16:32	TL1	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 05:36	TL1	TAL SEA

## Client Sample ID: VE-3@45'

Lab Sample ID: 580-60027-4

Date Collected: 06/01/16 10:32

Matrix: Solid

Date Received: 06/03/16 15:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

## Client Sample ID: VE-3@45'

Lab Sample ID: 580-60027-4

Date Collected: 06/01/16 10:32

Matrix: Solid

Date Received: 06/03/16 15:14

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219770	06/13/16 17:00	TL1	TAL SEA
Total/NA	Prep	5035			219466	06/10/16 16:35	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219478	06/11/16 02:28	HDK	TAL SEA

## Client Sample ID: VE-3@55'

Lab Sample ID: 580-60027-5

Date Collected: 06/01/16 12:08

Matrix: Solid

Date Received: 06/03/16 15:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

## Client Sample ID: VE-3@55'

Lab Sample ID: 580-60027-5

Date Collected: 06/01/16 12:08

Matrix: Solid

Date Received: 06/03/16 15:14

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219770	06/13/16 17:28	TL1	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 06:08	TL1	TAL SEA

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

**Client Sample ID: VE-3@65'**

**Lab Sample ID: 580-60027-6**

Date Collected: 06/01/16 13:55

Matrix: Solid

Date Received: 06/03/16 15:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

**Client Sample ID: VE-3@65'**

**Lab Sample ID: 580-60027-6**

Date Collected: 06/01/16 13:55

Matrix: Solid

Date Received: 06/03/16 15:14

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219770	06/13/16 17:55	TL1	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 06:39	TL1	TAL SEA

**Client Sample ID: VE-3@75'**

**Lab Sample ID: 580-60027-7**

Date Collected: 06/01/16 14:26

Matrix: Solid

Date Received: 06/03/16 15:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219366	06/10/16 09:01	J1J	TAL SEA

**Client Sample ID: VE-3@75'**

**Lab Sample ID: 580-60027-7**

Date Collected: 06/01/16 14:26

Matrix: Solid

Date Received: 06/03/16 15:14

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219562	06/12/16 15:51	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219770	06/13/16 18:23	TL1	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 07:12	TL1	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

## Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture
D 2216		Solid	Percent Solids



# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick

TestAmerica Job ID: 580-60027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-60027-1	VE-3@15'	Solid	06/01/16 08:30	06/03/16 15:14
580-60027-2	VE-3@25'	Solid	06/01/16 08:58	06/03/16 15:14
580-60027-3	VE-3@35'	Solid	06/01/16 09:45	06/03/16 15:14
580-60027-4	VE-3@45'	Solid	06/01/16 10:32	06/03/16 15:14
580-60027-5	VE-3@55'	Solid	06/01/16 12:08	06/03/16 15:14
580-60027-6	VE-3@65'	Solid	06/01/16 13:55	06/03/16 15:14
580-60027-7	VE-3@75'	Solid	06/01/16 14:26	06/03/16 15:14



Client <b>BLAES ENVIRONMENTAL</b>			Client Contact <b>DAN BLAES</b>			Date <b>6/1/16</b>	Chain of Custody Number <b>15417</b>
Address <b>45 EAST MONTEREY WAY</b>			Telephone Number (Area Code)/Fax Number <b>602-728-0707</b>			Lab Number	Page <b>1</b> of <b>1</b>

City <b>PHOENIX</b>	State <b>AZ</b>	Zip Code <b>85012</b>	Sampler <b>D. BLAES</b>	Lab Contact	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Project Name and Location (State) <b>CIRCLE K # 6049 KENNECICK</b>			Billing Contact <b>DAN BLAES</b>			

Contract/Purchase Order/Quote No. <b>DAN BLAES</b>			Matrix			Containers & Preservatives		
---	--	--	--------	--	--	----------------------------	--	--

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives						Special Instructions/ Conditions of Receipt					
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH						
VE-3 @ 15'	6/1/16					X												
VE-3 @ 25'						X												
VE-3 @ 35'						X												
VE-3 @ 45'						X												
VE-3 @ 55'						X												
VE-3 @ 65'						X												
VE-3 @ 75'						X												

RPH-GX (CAROLINE)  
 8260 FULL LIST VES



580-60027 Chain of Custody

TBA2 Cooler Cor 0.1 w/cs Unc 0.1  
 Cooler Disc by Blu/whi @ Lab  
 Wet Packs Packing bub  
 Fed SO

Cooler <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temp: _____	Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
--	---	--	---

Turn Around Time Required (business days) <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days <input type="checkbox"/> Other _____	QC Requirements (Specify)
--	---------------------------

1. Relinquished By Sign/Print <b>D. Blaes</b>	Date <b>6/1/16</b>	Time <b>1535</b>	1. Received By Sign/Print <b>Bob J. Beck TALR</b>	Date <b>6-1-16</b>	Time <b>1535</b>
2. Relinquished By Sign/Print <b>Bob J. Beck TALR</b>	Date <b>6-1-16</b>	Time <b>1535</b>	2. Received By Sign/Print <b>Tom Blankinship / Blankinship</b>	Date <b>6/2/16</b>	Time <b>0953</b>
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-60027-1

**Login Number: 60027**

**List Number: 1**

**Creator: Gall, Brandon A**

**List Source: TestAmerica Seattle**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-60051-1  
Client Project/Site: Circle K #6049

For:

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
6/21/2016 5:55:43 PM

Christabel Escarez, Project Manager I  
(253)922-2310  
[christabel.escarez@testamericainc.com](mailto:christabel.escarez@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Job ID: 580-60051-1**

**Laboratory: TestAmerica Seattle**

## Narrative

### Job Narrative 580-60051-1

#### Receipt

The samples were received on 6/3/2016 4:20 PM; the samples arrived in good condition, properly preserved, and on ice. The temperature of the cooler at receipt was 4.1° C.

#### GC/MS VOA

Method(s) NWTPH-Gx: deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: 2.5 mL of extract was used to analyze the following samples instead of the standard 1.075 mL's: (LCS 580-219646/2-A) and (LCSD 580-219646/3-A). The LCS and LCSD recover within control limits; therefore, the data have been reported.

Method(s) NWTPH-Gx: The following samples were analyzed at reduced volume due to insufficient remaining methanol in the sample: VE-4@45' (580-60051-4).

Method(s) NWTPH-Gx: The closing CCV associated with analytical batch 580-219672 recovered below the lower control limit due to the use of a new primary gasoline standard which fails low. The associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovered within control limits, demonstrating instrument stability. There is insufficient volume to perform re-analysis; therefore, the data have been reported. The following samples are impacted: (CCV 580-219672/12), (CCV 580-219672/22), (CCV 580-219672/31) and (CCVRT 580-219672/5).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-219921 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: VE-4@15' (580-60051-1), VE-4@25' (580-60051-2), VE-4@35' (580-60051-3), VE-4@45' (580-60051-4) and (CCVIS 580-219921/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@15'**

**Lab Sample ID: 580-60051-1**

**Date Collected: 06/02/16 09:55**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 95.0**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Chloromethane	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Vinyl chloride	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Bromomethane	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Chloroethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Trichlorofluoromethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1-Dichloroethene	ND		5.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Methylene Chloride	ND		16		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Methyl tert-butyl ether	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
trans-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1-Dichloroethane	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
2,2-Dichloropropane	ND		5.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
cis-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Chlorobromomethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Chloroform	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1,1-Trichloroethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Carbon tetrachloride	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1-Dichloropropene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Benzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
EDC	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Trichloroethene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2-Dichloropropane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Dibromomethane	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Dichlorobromomethane	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Toluene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
trans-1,3-Dichloropropene	ND		11		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1,2-Trichloroethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Tetrachloroethene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,3-Dichloropropane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Chlorodibromomethane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
EDB	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Chlorobenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Ethylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
m-Xylene & p-Xylene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
o-Xylene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Styrene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Bromoform	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Isopropylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Bromobenzene	ND		11		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2,3-Trichloropropane	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
N-Propylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
2-Chlorotoluene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
4-Chlorotoluene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,3,5-Trimethylbenzene	ND		5.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
tert-Butylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2,4-Trimethylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@15'**

**Lab Sample ID: 580-60051-1**

**Date Collected: 06/02/16 09:55**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 95.0**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
4-Isopropyltoluene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,3-Dichlorobenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,4-Dichlorobenzene	ND		1.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
n-Butylbenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2-Dichlorobenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Hexachlorobutadiene	ND		3.2		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
Naphthalene	ND		11		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1
1,2,3-Trichlorobenzene	ND		3.2		ug/Kg	☼	06/03/16 16:30	06/15/16 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	96		65 - 140	06/03/16 16:30	06/15/16 19:01	1
Toluene-d8 (Surr)	102		80 - 120	06/03/16 16:30	06/15/16 19:01	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 136	06/03/16 16:30	06/15/16 19:01	1
4-Bromofluorobenzene (Surr)	103		70 - 120	06/03/16 16:30	06/15/16 19:01	1
Dibromofluoromethane (Surr)	102		75 - 132	06/03/16 16:30	06/15/16 19:01	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.3		mg/Kg	☼	06/13/16 13:36	06/13/16 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	06/13/16 13:36	06/13/16 22:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.0		0.1		%			06/08/16 11:47	1
Percent Moisture	5.0		0.1		%			06/08/16 11:47	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@25'**

**Lab Sample ID: 580-60051-2**

**Date Collected: 06/02/16 10:40**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 94.1**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Chloromethane	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Vinyl chloride	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Bromomethane	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Chloroethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Trichlorofluoromethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1-Dichloroethene	ND		4.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Methylene Chloride	ND		13		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Methyl tert-butyl ether	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
trans-1,2-Dichloroethene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1-Dichloroethane	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
2,2-Dichloropropane	ND		4.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
cis-1,2-Dichloroethene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Chlorobromomethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Chloroform	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1,1-Trichloroethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Carbon tetrachloride	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1-Dichloropropene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Benzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
EDC	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Trichloroethene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2-Dichloropropane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Dibromomethane	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Dichlorobromomethane	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
cis-1,3-Dichloropropene	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Toluene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
trans-1,3-Dichloropropene	ND		8.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1,1,2-Trichloroethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Tetrachloroethene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,3-Dichloropropane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Chlorodibromomethane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
EDB	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Chlorobenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1,1,2-Tetrachloroethane	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Ethylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
m-Xylene & p-Xylene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
o-Xylene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Styrene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Bromoform	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Isopropylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Bromobenzene	ND		8.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,1,2,2-Tetrachloroethane	ND		3.5		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2,3-Trichloropropane	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
N-Propylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
2-Chlorotoluene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
4-Chlorotoluene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
tert-Butylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2,4-Trimethylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@25'**

**Lab Sample ID: 580-60051-2**

**Date Collected: 06/02/16 10:40**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 94.1**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
4-Isopropyltoluene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,3-Dichlorobenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,4-Dichlorobenzene	ND		0.86		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
n-Butylbenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2-Dichlorobenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2-Dibromo-3-Chloropropane	ND		8.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2,4-Trichlorobenzene	ND		1.7		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Hexachlorobutadiene	ND		2.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
Naphthalene	ND		8.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1
1,2,3-Trichlorobenzene	ND		2.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	95		65 - 140	06/03/16 16:30	06/15/16 19:29	1
Toluene-d8 (Surr)	100		80 - 120	06/03/16 16:30	06/15/16 19:29	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 136	06/03/16 16:30	06/15/16 19:29	1
4-Bromofluorobenzene (Surr)	102		70 - 120	06/03/16 16:30	06/15/16 19:29	1
Dibromofluoromethane (Surr)	102		75 - 132	06/03/16 16:30	06/15/16 19:29	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.9		mg/Kg	☼	06/13/16 13:36	06/13/16 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	06/13/16 13:36	06/13/16 23:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94.1		0.1		%			06/08/16 11:47	1
Percent Moisture	5.9		0.1		%			06/08/16 11:47	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@35'**

**Lab Sample ID: 580-60051-3**

**Date Collected: 06/02/16 11:35**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 96.1**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Chloromethane	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Vinyl chloride	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Bromomethane	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Chloroethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Trichlorofluoromethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1-Dichloroethene	ND		4.4		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Methylene Chloride	ND		13		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Methyl tert-butyl ether	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
trans-1,2-Dichloroethene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1-Dichloroethane	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
2,2-Dichloropropane	ND		4.4		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
cis-1,2-Dichloroethene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Chlorobromomethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Chloroform	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1,1-Trichloroethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Carbon tetrachloride	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1-Dichloropropene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Benzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
EDC	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Trichloroethene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2-Dichloropropane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Dibromomethane	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Dichlorobromomethane	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
cis-1,3-Dichloropropene	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Toluene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
trans-1,3-Dichloropropene	ND		8.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1,2-Trichloroethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Tetrachloroethene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,3-Dichloropropane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Chlorodibromomethane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
EDB	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Chlorobenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1,1,2-Tetrachloroethane	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Ethylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
m-Xylene & p-Xylene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
o-Xylene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Styrene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Bromoform	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Isopropylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Bromobenzene	ND		8.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,1,2,2-Tetrachloroethane	ND		3.5		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2,3-Trichloropropane	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
N-Propylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
2-Chlorotoluene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
4-Chlorotoluene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
tert-Butylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@35'**

**Lab Sample ID: 580-60051-3**

**Date Collected: 06/02/16 11:35**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 96.1**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
4-Isopropyltoluene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,3-Dichlorobenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,4-Dichlorobenzene	ND		0.88		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
n-Butylbenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2-Dichlorobenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2-Dibromo-3-Chloropropane	ND		8.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2,4-Trichlorobenzene	ND		1.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Hexachlorobutadiene	ND		2.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
Naphthalene	ND		8.8		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
1,2,3-Trichlorobenzene	ND		2.6		ug/Kg	☼	06/03/16 16:30	06/15/16 19:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Trifluorotoluene (Surr)	98		65 - 140				06/03/16 16:30	06/15/16 19:56	1
Toluene-d8 (Surr)	100		80 - 120				06/03/16 16:30	06/15/16 19:56	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136				06/03/16 16:30	06/15/16 19:56	1
4-Bromofluorobenzene (Surr)	103		70 - 120				06/03/16 16:30	06/15/16 19:56	1
Dibromofluoromethane (Surr)	103		75 - 132				06/03/16 16:30	06/15/16 19:56	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.6		mg/Kg	☼	06/13/16 13:36	06/14/16 00:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	96		50 - 150				06/13/16 13:36	06/14/16 00:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.1		0.1		%			06/08/16 11:47	1
Percent Moisture	3.9		0.1		%			06/08/16 11:47	1

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@45'**

**Lab Sample ID: 580-60051-4**

**Date Collected: 06/02/16 12:28**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 96.6**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Chloromethane	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Vinyl chloride	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Bromomethane	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Chloroethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Trichlorofluoromethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1-Dichloroethene	ND		4.8		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Methylene Chloride	ND		14		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Methyl tert-butyl ether	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
trans-1,2-Dichloroethene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1-Dichloroethane	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
2,2-Dichloropropane	ND		4.8		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
cis-1,2-Dichloroethene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Chlorobromomethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Chloroform	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1,1-Trichloroethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Carbon tetrachloride	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1-Dichloropropene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Benzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
EDC	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Trichloroethene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2-Dichloropropane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Dibromomethane	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Dichlorobromomethane	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
cis-1,3-Dichloropropene	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Toluene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
trans-1,3-Dichloropropene	ND		9.5		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1,2-Trichloroethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Tetrachloroethene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,3-Dichloropropane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Chlorodibromomethane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
EDB	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Chlorobenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1,1,2-Tetrachloroethane	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Ethylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
m-Xylene & p-Xylene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
o-Xylene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Styrene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Bromoform	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Isopropylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Bromobenzene	ND		9.5		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,1,2,2-Tetrachloroethane	ND		3.8		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2,3-Trichloropropane	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
N-Propylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
2-Chlorotoluene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
4-Chlorotoluene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
tert-Butylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@45'**

**Lab Sample ID: 580-60051-4**

**Date Collected: 06/02/16 12:28**

**Matrix: Solid**

**Date Received: 06/04/16 16:07**

**Percent Solids: 96.6**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
4-Isopropyltoluene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,3-Dichlorobenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,4-Dichlorobenzene	ND		0.95		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
n-Butylbenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2-Dichlorobenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2-Dibromo-3-Chloropropane	ND		9.5		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Hexachlorobutadiene	ND		2.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
Naphthalene	ND		9.5		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1
1,2,3-Trichlorobenzene	ND		2.9		ug/Kg	☼	06/03/16 16:30	06/15/16 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	96		65 - 140	06/03/16 16:30	06/15/16 20:24	1
Toluene-d8 (Surr)	103		80 - 120	06/03/16 16:30	06/15/16 20:24	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136	06/03/16 16:30	06/15/16 20:24	1
4-Bromofluorobenzene (Surr)	101		70 - 120	06/03/16 16:30	06/15/16 20:24	1
Dibromofluoromethane (Surr)	103		75 - 132	06/03/16 16:30	06/15/16 20:24	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.4		mg/Kg	☼	06/13/16 13:36	06/14/16 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	06/13/16 13:36	06/14/16 01:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.6		0.1		%			06/08/16 11:47	1
Percent Moisture	3.4		0.1		%			06/08/16 11:47	1

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 580-219944/1-A**

**Matrix: Solid**

**Analysis Batch: 219921**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 219944**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Chloromethane	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Vinyl chloride	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Bromomethane	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Chloroethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Trichlorofluoromethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1-Dichloroethene	ND		5.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Methylene Chloride	ND		15		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1-Dichloroethane	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
2,2-Dichloropropane	ND		5.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Chlorobromomethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Chloroform	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Carbon tetrachloride	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1-Dichloropropene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Benzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
EDC	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Trichloroethene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,2-Dichloropropane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Dibromomethane	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Dichlorobromomethane	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Toluene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Tetrachloroethene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,3-Dichloropropane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Chlorodibromomethane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
EDB	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Chlorobenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Ethylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
m-Xylene & p-Xylene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
o-Xylene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Styrene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Bromoform	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Isopropylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Bromobenzene	ND		10		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,2,3-Trichloropropane	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
N-Propylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
2-Chlorotoluene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
4-Chlorotoluene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
tert-Butylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 580-219944/1-A**

**Matrix: Solid**

**Analysis Batch: 219921**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 219944**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
sec-Butylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
4-Isopropyltoluene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
n-Butylbenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Hexachlorobutadiene	ND		3.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
Naphthalene	ND		10		ug/Kg		06/15/16 16:40	06/15/16 16:46	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		06/15/16 16:40	06/15/16 16:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	95		65 - 140	06/15/16 16:40	06/15/16 16:46	1
Toluene-d8 (Surr)	102		80 - 120	06/15/16 16:40	06/15/16 16:46	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 136	06/15/16 16:40	06/15/16 16:46	1
4-Bromofluorobenzene (Surr)	102		70 - 120	06/15/16 16:40	06/15/16 16:46	1
Dibromofluoromethane (Surr)	102		75 - 132	06/15/16 16:40	06/15/16 16:46	1

**Lab Sample ID: LCS 580-219944/2-A**

**Matrix: Solid**

**Analysis Batch: 219921**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219944**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	27.4		ug/Kg		137	38 - 150
Chloromethane	20.0	21.6		ug/Kg		108	55 - 136
Vinyl chloride	20.0	21.5		ug/Kg		107	67 - 131
Bromomethane	20.0	20.8		ug/Kg		104	57 - 148
Chloroethane	20.0	23.6		ug/Kg		118	48 - 167
Trichlorofluoromethane	20.0	20.3		ug/Kg		101	47 - 165
1,1-Dichloroethene	20.2	20.3		ug/Kg		101	70 - 133
Methylene Chloride	20.1	25.2		ug/Kg		126	57 - 146
Methyl tert-butyl ether	20.0	23.1		ug/Kg		115	65 - 125
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	76 - 131
1,1-Dichloroethane	20.0	20.8		ug/Kg		104	70 - 128
2,2-Dichloropropane	20.0	23.8		ug/Kg		119	56 - 144
cis-1,2-Dichloroethene	20.0	20.7		ug/Kg		103	70 - 130
Chlorobromomethane	20.0	22.0		ug/Kg		110	78 - 123
Chloroform	20.0	20.6		ug/Kg		103	78 - 125
1,1,1-Trichloroethane	20.1	20.9		ug/Kg		104	63 - 135
Carbon tetrachloride	20.0	20.3		ug/Kg		101	59 - 145
1,1-Dichloropropene	20.0	19.6		ug/Kg		98	77 - 125
Benzene	20.1	20.3		ug/Kg		101	70 - 128
EDC	20.0	19.4		ug/Kg		97	71 - 128
Trichloroethene	20.0	18.6		ug/Kg		93	83 - 124
1,2-Dichloropropane	20.0	19.7		ug/Kg		99	76 - 161
Dibromomethane	20.1	21.3		ug/Kg		106	78 - 126

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 580-219944/2-A**

**Matrix: Solid**

**Analysis Batch: 219921**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219944**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	20.1	20.6		ug/Kg		103	58 - 133
cis-1,3-Dichloropropene	20.1	20.4		ug/Kg		102	69 - 129
Toluene	20.0	19.4		ug/Kg		97	75 - 126
trans-1,3-Dichloropropene	20.0	19.9		ug/Kg		99	72 - 129
1,1,2-Trichloroethane	20.1	20.1		ug/Kg		100	77 - 124
Tetrachloroethene	20.1	19.6		ug/Kg		98	56 - 155
1,3-Dichloropropane	20.0	20.0		ug/Kg		100	77 - 123
Chlorodibromomethane	20.0	20.7		ug/Kg		103	42 - 129
EDB	20.0	21.1		ug/Kg		106	69 - 126
Chlorobenzene	20.1	19.9		ug/Kg		99	75 - 120
1,1,1,2-Tetrachloroethane	20.1	21.8		ug/Kg		109	72 - 123
Ethylbenzene	20.1	19.8		ug/Kg		99	78 - 126
m-Xylene & p-Xylene	20.0	19.6		ug/Kg		98	78 - 126
o-Xylene	20.0	20.6		ug/Kg		103	77 - 127
Styrene	20.0	20.0		ug/Kg		100	79 - 127
Bromoform	20.1	20.2		ug/Kg		101	50 - 124
Isopropylbenzene	20.0	20.5		ug/Kg		103	79 - 127
Bromobenzene	20.0	20.9		ug/Kg		104	80 - 120
1,1,2,2-Tetrachloroethane	20.0	24.1		ug/Kg		120	73 - 125
1,2,3-Trichloropropane	20.0	21.4		ug/Kg		107	77 - 123
N-Propylbenzene	20.0	19.9		ug/Kg		100	81 - 127
2-Chlorotoluene	20.0	20.2		ug/Kg		101	79 - 122
4-Chlorotoluene	20.1	20.3		ug/Kg		101	80 - 122
1,3,5-Trimethylbenzene	20.0	20.2		ug/Kg		101	80 - 125
tert-Butylbenzene	20.0	20.1		ug/Kg		101	71 - 136
1,2,4-Trimethylbenzene	20.0	20.3		ug/Kg		102	79 - 124
sec-Butylbenzene	20.0	20.3		ug/Kg		101	78 - 128
4-Isopropyltoluene	20.0	20.1		ug/Kg		101	78 - 126
1,3-Dichlorobenzene	20.0	20.3		ug/Kg		101	79 - 119
1,4-Dichlorobenzene	20.1	20.0		ug/Kg		100	79 - 117
n-Butylbenzene	20.0	20.0		ug/Kg		100	78 - 128
1,2-Dichlorobenzene	20.0	21.3		ug/Kg		106	79 - 117
1,2-Dibromo-3-Chloropropane	20.0	24.3		ug/Kg		121	53 - 132
1,2,4-Trichlorobenzene	20.0	21.2		ug/Kg		106	61 - 130
Hexachlorobutadiene	20.0	20.5		ug/Kg		103	68 - 134
Naphthalene	20.0	20.4		ug/Kg		102	14 - 170
1,2,3-Trichlorobenzene	20.0	21.1		ug/Kg		105	61 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Trifluorotoluene (Surr)	97		65 - 140
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		71 - 136
4-Bromofluorobenzene (Surr)	99		70 - 120
Dibromofluoromethane (Surr)	107		75 - 132

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-219646/1-A**

**Matrix: Solid**

**Analysis Batch: 219672**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 219646**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		1.7		mg/Kg		06/13/16 13:36	06/13/16 15:39	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150				06/13/16 13:36	06/13/16 15:39	1

**Lab Sample ID: LCS 580-219646/2-A**

**Matrix: Solid**

**Analysis Batch: 219672**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 219646**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline	40.1	37.3		mg/Kg		93	68 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		50 - 150				

**Lab Sample ID: LCSD 580-219646/3-A**

**Matrix: Solid**

**Analysis Batch: 219672**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 219646**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limit	RPD
Gasoline	40.1	37.0		mg/Kg		92	68 - 120	1
Surrogate	%Recovery	LCSD Qualifier	Limits					
4-Bromofluorobenzene (Surr)	109		50 - 150					

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@15'**

Date Collected: 06/02/16 09:55

Date Received: 06/04/16 16:07

**Lab Sample ID: 580-60051-1**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219174	06/08/16 11:47	CBS	TAL SEA

**Client Sample ID: VE-4@15'**

Date Collected: 06/02/16 09:55

Date Received: 06/04/16 16:07

**Lab Sample ID: 580-60051-1**

Matrix: Solid

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219944	06/03/16 16:30	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219921	06/15/16 19:01	CJ	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/13/16 22:54	TL1	TAL SEA

**Client Sample ID: VE-4@25'**

Date Collected: 06/02/16 10:40

Date Received: 06/04/16 16:07

**Lab Sample ID: 580-60051-2**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219174	06/08/16 11:47	CBS	TAL SEA

**Client Sample ID: VE-4@25'**

Date Collected: 06/02/16 10:40

Date Received: 06/04/16 16:07

**Lab Sample ID: 580-60051-2**

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219944	06/03/16 16:30	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219921	06/15/16 19:29	CJ	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/13/16 23:41	TL1	TAL SEA

**Client Sample ID: VE-4@35'**

Date Collected: 06/02/16 11:35

Date Received: 06/04/16 16:07

**Lab Sample ID: 580-60051-3**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219174	06/08/16 11:47	CBS	TAL SEA

**Client Sample ID: VE-4@35'**

Date Collected: 06/02/16 11:35

Date Received: 06/04/16 16:07

**Lab Sample ID: 580-60051-3**

Matrix: Solid

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219944	06/03/16 16:30	IWH	TAL SEA

TestAmerica Seattle

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

**Client Sample ID: VE-4@35'**

**Lab Sample ID: 580-60051-3**

Date Collected: 06/02/16 11:35

Matrix: Solid

Date Received: 06/04/16 16:07

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	219921	06/15/16 19:56	CJ	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 00:38	TL1	TAL SEA

**Client Sample ID: VE-4@45'**

**Lab Sample ID: 580-60051-4**

Date Collected: 06/02/16 12:28

Matrix: Solid

Date Received: 06/04/16 16:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	219174	06/08/16 11:47	CBS	TAL SEA

**Client Sample ID: VE-4@45'**

**Lab Sample ID: 580-60051-4**

Date Collected: 06/02/16 12:28

Matrix: Solid

Date Received: 06/04/16 16:07

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			219944	06/03/16 16:30	IWH	TAL SEA
Total/NA	Analysis	8260C		1	219921	06/15/16 20:24	CJ	TAL SEA
Total/NA	Prep	5035			219646	06/13/16 13:36	JW1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	219672	06/14/16 01:09	TL1	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

## Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture
D 2216		Solid	Percent Solids



# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049

TestAmerica Job ID: 580-60051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-60051-1	VE-4@15'	Solid	06/02/16 09:55	06/04/16 16:07
580-60051-2	VE-4@25'	Solid	06/02/16 10:40	06/04/16 16:07
580-60051-3	VE-4@35'	Solid	06/02/16 11:35	06/04/16 16:07
580-60051-4	VE-4@45'	Solid	06/02/16 12:28	06/04/16 16:07

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## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-60051-1

**Login Number: 60051**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Gall, Brandon A**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**APPENDIX E**  
**GROUNDWATER ANALYTICAL REPORTS**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310

TestAmerica Job ID: 580-41542-1

Client Project/Site: CIRCLE K # 6049 KENNEWICK WA

For:

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
12/13/2013 5:15:42 PM

Pam Johnson, Project Manager I  
(253)922-2310 x112  
[pamr.johnson@testamericainc.com](mailto:pamr.johnson@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

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**Job ID: 580-41542-1**

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**Laboratory: TestAmerica Seattle**

### Narrative

#### Receipt

The samples were received on 12/6/2013 9:16 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

Except:

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC), Trip Blanks. Trip Blanks were submitted but not listed on the Chain-of-Custody (COC). The Trip Blanks were added to the Chain-of-Custody (COC).

#### GC/MS VOA

No analytical or quality issues were noted.

#### GC Semi VOA

No analytical or quality issues were noted.

#### Metals - Method 7470A

Only HCL preserved VOA vials were provided. Two vials were used to make up 50 mls needed for Mercury analysis.

No other analytical or quality issues were noted.

## Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

**Client Sample ID: MW-1**  
**Date Collected: 12/05/13 11:15**  
**Date Received: 12/06/13 09:16**

**Lab Sample ID: 580-41542-1**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/11/13 17:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/11/13 17:32	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/11/13 17:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/11/13 17:32	1
1,1-Dichloroethane	ND		1.0		ug/L			12/11/13 17:32	1
1,1-Dichloroethene	ND		1.0		ug/L			12/11/13 17:32	1
1,1-Dichloropropene	ND		1.0		ug/L			12/11/13 17:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/11/13 17:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/11/13 17:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/11/13 17:32	1
<b>1,2,4-Trimethylbenzene</b>	<b>5.5</b>		1.0		ug/L			12/11/13 17:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/11/13 17:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/11/13 17:32	1
EDC	ND		1.0		ug/L			12/11/13 17:32	1
1,2-Dichloropropane	ND		1.0		ug/L			12/11/13 17:32	1
<b>1,3,5-Trimethylbenzene</b>	<b>2.6</b>		1.0		ug/L			12/11/13 17:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/11/13 17:32	1
1,3-Dichloropropane	ND		1.0		ug/L			12/11/13 17:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/11/13 17:32	1
2,2-Dichloropropane	ND		1.0		ug/L			12/11/13 17:32	1
2-Chlorotoluene	ND		1.0		ug/L			12/11/13 17:32	1
4-Chlorotoluene	ND		1.0		ug/L			12/11/13 17:32	1
4-Isopropyltoluene	ND		1.0		ug/L			12/11/13 17:32	1
Benzene	ND		1.0		ug/L			12/11/13 17:32	1
Bromobenzene	ND		1.0		ug/L			12/11/13 17:32	1
Bromoform	ND		1.0		ug/L			12/11/13 17:32	1
Bromomethane	ND		5.0		ug/L			12/11/13 17:32	1
Carbon tetrachloride	ND		1.0		ug/L			12/11/13 17:32	1
Chlorobenzene	ND		1.0		ug/L			12/11/13 17:32	1
Chlorobromomethane	ND		1.0		ug/L			12/11/13 17:32	1
Chlorodibromomethane	ND		1.0		ug/L			12/11/13 17:32	1
Chloroethane	ND		5.0		ug/L			12/11/13 17:32	1
Chloroform	ND		1.0		ug/L			12/11/13 17:32	1
Chloromethane	ND		5.0		ug/L			12/11/13 17:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/11/13 17:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/11/13 17:32	1
Dibromomethane	ND		1.0		ug/L			12/11/13 17:32	1
Dichlorobromomethane	ND		1.0		ug/L			12/11/13 17:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/11/13 17:32	1
Ethylbenzene	ND		1.0		ug/L			12/11/13 17:32	1
Ethylene Dibromide	ND		1.0		ug/L			12/11/13 17:32	1
Hexachlorobutadiene	ND		1.0		ug/L			12/11/13 17:32	1
Isopropylbenzene	ND		1.0		ug/L			12/11/13 17:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			12/11/13 17:32	1
Methylene Chloride	ND		3.0		ug/L			12/11/13 17:32	1
<b>m-Xylene &amp; p-Xylene</b>	<b>3.0</b>		2.0		ug/L			12/11/13 17:32	1
Naphthalene	ND		1.0		ug/L			12/11/13 17:32	1
<b>n-Butylbenzene</b>	<b>2.3</b>		1.0		ug/L			12/11/13 17:32	1
N-Propylbenzene	ND		1.0		ug/L			12/11/13 17:32	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

**Client Sample ID: MW-1**

**Lab Sample ID: 580-41542-1**

**Date Collected: 12/05/13 11:15**

**Matrix: Water**

**Date Received: 12/06/13 09:16**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>3.4</b>		1.0		ug/L			12/11/13 17:32	1
sec-Butylbenzene	ND		1.0		ug/L			12/11/13 17:32	1
Styrene	ND		1.0		ug/L			12/11/13 17:32	1
tert-Butylbenzene	ND		1.0		ug/L			12/11/13 17:32	1
Tetrachloroethene	ND		1.0		ug/L			12/11/13 17:32	1
Toluene	ND		1.0		ug/L			12/11/13 17:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/11/13 17:32	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/11/13 17:32	1
Trichloroethene	ND		1.0		ug/L			12/11/13 17:32	1
Trichlorofluoromethane	ND		1.0		ug/L			12/11/13 17:32	1
Vinyl chloride	ND		1.0		ug/L			12/11/13 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 120		12/11/13 17:32	1
Toluene-d8 (Surr)	96		85 - 120		12/11/13 17:32	1
Trifluorotoluene (Surr)	99		80 - 120		12/11/13 17:32	1
Dibromofluoromethane (Surr)	105		85 - 115		12/11/13 17:32	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 120		12/11/13 17:32	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline</b>	<b>0.11</b>		0.050		mg/L			12/10/13 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150		12/10/13 19:13	1
Trifluorotoluene (Surr)	114		50 - 150		12/10/13 19:13	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010		ug/L		12/10/13 07:12	12/10/13 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	87		70 - 130	12/10/13 07:12	12/10/13 14:24	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/12/13 12:15	12/12/13 15:54	1

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

**Client Sample ID: MW-2**

**Lab Sample ID: 580-41542-2**

**Date Collected: 12/05/13 11:30**

**Matrix: Water**

**Date Received: 12/06/13 09:16**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/11/13 17:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/11/13 17:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/11/13 17:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/11/13 17:55	1
1,1-Dichloroethane	ND		1.0		ug/L			12/11/13 17:55	1
1,1-Dichloroethene	ND		1.0		ug/L			12/11/13 17:55	1
1,1-Dichloropropene	ND		1.0		ug/L			12/11/13 17:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/11/13 17:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/11/13 17:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/11/13 17:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/11/13 17:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/11/13 17:55	1
EDC	ND		1.0		ug/L			12/11/13 17:55	1
1,2-Dichloropropane	ND		1.0		ug/L			12/11/13 17:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/11/13 17:55	1
1,3-Dichloropropane	ND		1.0		ug/L			12/11/13 17:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/11/13 17:55	1
2,2-Dichloropropane	ND		1.0		ug/L			12/11/13 17:55	1
2-Chlorotoluene	ND		1.0		ug/L			12/11/13 17:55	1
4-Chlorotoluene	ND		1.0		ug/L			12/11/13 17:55	1
4-Isopropyltoluene	ND		1.0		ug/L			12/11/13 17:55	1
Benzene	ND		1.0		ug/L			12/11/13 17:55	1
Bromobenzene	ND		1.0		ug/L			12/11/13 17:55	1
Bromoform	ND		1.0		ug/L			12/11/13 17:55	1
Bromomethane	ND		5.0		ug/L			12/11/13 17:55	1
Carbon tetrachloride	ND		1.0		ug/L			12/11/13 17:55	1
Chlorobenzene	ND		1.0		ug/L			12/11/13 17:55	1
Chlorobromomethane	ND		1.0		ug/L			12/11/13 17:55	1
Chlorodibromomethane	ND		1.0		ug/L			12/11/13 17:55	1
Chloroethane	ND		5.0		ug/L			12/11/13 17:55	1
Chloroform	ND		1.0		ug/L			12/11/13 17:55	1
Chloromethane	ND		5.0		ug/L			12/11/13 17:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/11/13 17:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/11/13 17:55	1
Dibromomethane	ND		1.0		ug/L			12/11/13 17:55	1
Dichlorobromomethane	ND		1.0		ug/L			12/11/13 17:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/11/13 17:55	1
Ethylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
Ethylene Dibromide	ND		1.0		ug/L			12/11/13 17:55	1
Hexachlorobutadiene	ND		1.0		ug/L			12/11/13 17:55	1
Isopropylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			12/11/13 17:55	1
Methylene Chloride	ND		3.0		ug/L			12/11/13 17:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/11/13 17:55	1
Naphthalene	ND		1.0		ug/L			12/11/13 17:55	1
n-Butylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
N-Propylbenzene	ND		1.0		ug/L			12/11/13 17:55	1

TestAmerica Seattle

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

**Client Sample ID: MW-2**

**Lab Sample ID: 580-41542-2**

**Date Collected: 12/05/13 11:30**

**Matrix: Water**

**Date Received: 12/06/13 09:16**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			12/11/13 17:55	1
sec-Butylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
Styrene	ND		1.0		ug/L			12/11/13 17:55	1
tert-Butylbenzene	ND		1.0		ug/L			12/11/13 17:55	1
Tetrachloroethene	ND		1.0		ug/L			12/11/13 17:55	1
Toluene	ND		1.0		ug/L			12/11/13 17:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/11/13 17:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/11/13 17:55	1
Trichloroethene	ND		1.0		ug/L			12/11/13 17:55	1
Trichlorofluoromethane	ND		1.0		ug/L			12/11/13 17:55	1
Vinyl chloride	ND		1.0		ug/L			12/11/13 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 120		12/11/13 17:55	1
Toluene-d8 (Surr)	99		85 - 120		12/11/13 17:55	1
Trifluorotoluene (Surr)	102		80 - 120		12/11/13 17:55	1
Dibromofluoromethane (Surr)	103		85 - 115		12/11/13 17:55	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 120		12/11/13 17:55	1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/10/13 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150		12/10/13 19:35	1
Trifluorotoluene (Surr)	114		50 - 150		12/10/13 19:35	1

### Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010		ug/L		12/10/13 07:12	12/10/13 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	89		70 - 130	12/10/13 07:12	12/10/13 14:50	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/12/13 12:15	12/12/13 15:57	1

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 580-150660/5**

**Matrix: Water**

**Analysis Batch: 150660**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/11/13 12:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/11/13 12:39	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/11/13 12:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/11/13 12:39	1
1,1-Dichloroethane	ND		1.0		ug/L			12/11/13 12:39	1
1,1-Dichloroethene	ND		1.0		ug/L			12/11/13 12:39	1
1,1-Dichloropropene	ND		1.0		ug/L			12/11/13 12:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			12/11/13 12:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/11/13 12:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			12/11/13 12:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/11/13 12:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/11/13 12:39	1
EDC	ND		1.0		ug/L			12/11/13 12:39	1
1,2-Dichloropropane	ND		1.0		ug/L			12/11/13 12:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			12/11/13 12:39	1
1,3-Dichloropropane	ND		1.0		ug/L			12/11/13 12:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/11/13 12:39	1
2,2-Dichloropropane	ND		1.0		ug/L			12/11/13 12:39	1
2-Chlorotoluene	ND		1.0		ug/L			12/11/13 12:39	1
4-Chlorotoluene	ND		1.0		ug/L			12/11/13 12:39	1
4-Isopropyltoluene	ND		1.0		ug/L			12/11/13 12:39	1
Benzene	ND		1.0		ug/L			12/11/13 12:39	1
Bromobenzene	ND		1.0		ug/L			12/11/13 12:39	1
Bromoform	ND		1.0		ug/L			12/11/13 12:39	1
Bromomethane	ND		5.0		ug/L			12/11/13 12:39	1
Carbon tetrachloride	ND		1.0		ug/L			12/11/13 12:39	1
Chlorobenzene	ND		1.0		ug/L			12/11/13 12:39	1
Chlorobromomethane	ND		1.0		ug/L			12/11/13 12:39	1
Chlorodibromomethane	ND		1.0		ug/L			12/11/13 12:39	1
Chloroethane	ND		5.0		ug/L			12/11/13 12:39	1
Chloroform	ND		1.0		ug/L			12/11/13 12:39	1
Chloromethane	ND		5.0		ug/L			12/11/13 12:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/11/13 12:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/11/13 12:39	1
Dibromomethane	ND		1.0		ug/L			12/11/13 12:39	1
Dichlorobromomethane	ND		1.0		ug/L			12/11/13 12:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			12/11/13 12:39	1
Ethylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
Ethylene Dibromide	ND		1.0		ug/L			12/11/13 12:39	1
Hexachlorobutadiene	ND		1.0		ug/L			12/11/13 12:39	1
Isopropylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			12/11/13 12:39	1
Methylene Chloride	ND		3.0		ug/L			12/11/13 12:39	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/11/13 12:39	1
Naphthalene	ND		1.0		ug/L			12/11/13 12:39	1
n-Butylbenzene	ND		1.0		ug/L			12/11/13 12:39	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 580-150660/5**

**Matrix: Water**

**Analysis Batch: 150660**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
o-Xylene	ND		1.0		ug/L			12/11/13 12:39	1
sec-Butylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
Styrene	ND		1.0		ug/L			12/11/13 12:39	1
tert-Butylbenzene	ND		1.0		ug/L			12/11/13 12:39	1
Tetrachloroethene	ND		1.0		ug/L			12/11/13 12:39	1
Toluene	ND		1.0		ug/L			12/11/13 12:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/11/13 12:39	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/11/13 12:39	1
Trichloroethene	ND		1.0		ug/L			12/11/13 12:39	1
Trichlorofluoromethane	ND		1.0		ug/L			12/11/13 12:39	1
Vinyl chloride	ND		1.0		ug/L			12/11/13 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		75 - 120		12/11/13 12:39	1
Toluene-d8 (Surr)	97		85 - 120		12/11/13 12:39	1
Trifluorotoluene (Surr)	101		80 - 120		12/11/13 12:39	1
Dibromofluoromethane (Surr)	104		85 - 115		12/11/13 12:39	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 120		12/11/13 12:39	1

**Lab Sample ID: LCS 580-150660/9**

**Matrix: Water**

**Analysis Batch: 150660**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.1	20.9		ug/L		104	80 - 130
1,1,1-Trichloroethane	20.1	22.7		ug/L		113	65 - 130
1,1,2,2-Tetrachloroethane	20.1	18.2		ug/L		91	65 - 130
1,1,2-Trichloroethane	20.1	19.4		ug/L		97	75 - 125
1,1-Dichloroethane	20.1	20.1		ug/L		100	70 - 135
1,1-Dichloroethene	20.1	21.5		ug/L		107	70 - 130
1,1-Dichloropropene	20.1	22.6		ug/L		113	75 - 130
1,2,3-Trichlorobenzene	20.1	18.1		ug/L		90	55 - 140
1,2,3-Trichloropropene	20.1	19.7		ug/L		98	75 - 125
1,2,4-Trichlorobenzene	20.1	18.7		ug/L		93	65 - 135
1,2,4-Trimethylbenzene	20.1	19.9		ug/L		99	75 - 130
1,2-Dibromo-3-Chloropropane	20.1	18.0		ug/L		90	50 - 130
1,2-Dichlorobenzene	20.1	19.3		ug/L		96	70 - 120
EDC	20.1	21.7		ug/L		108	70 - 130
1,2-Dichloropropane	20.1	21.4		ug/L		107	75 - 125
1,3,5-Trimethylbenzene	20.1	20.2		ug/L		101	75 - 130
1,3-Dichlorobenzene	20.1	19.7		ug/L		98	75 - 125
1,3-Dichloropropane	20.1	19.3		ug/L		96	75 - 125
1,4-Dichlorobenzene	20.1	19.7		ug/L		98	75 - 125
2,2-Dichloropropane	20.1	21.9		ug/L		109	70 - 135
2-Chlorotoluene	20.1	20.4		ug/L		102	75 - 125
4-Chlorotoluene	20.1	19.8		ug/L		99	75 - 130
4-Isopropyltoluene	20.1	21.1		ug/L		105	75 - 130

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 580-150660/9**

**Matrix: Water**

**Analysis Batch: 150660**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.1	21.0		ug/L		105	80 - 120
Bromobenzene	20.1	20.3		ug/L		101	75 - 125
Bromoform	20.1	18.3		ug/L		91	70 - 130
Bromomethane	20.1	20.9		ug/L		104	30 - 145
Carbon tetrachloride	20.1	24.3		ug/L		121	65 - 140
Chlorobenzene	20.1	20.2		ug/L		101	80 - 120
Chlorobromomethane	20.1	21.8		ug/L		109	65 - 130
Chlorodibromomethane	20.1	19.6		ug/L		98	60 - 135
Chloroethane	20.1	21.4		ug/L		107	60 - 135
Chloroform	20.1	21.0		ug/L		105	65 - 135
Chloromethane	20.1	18.7		ug/L		93	40 - 125
cis-1,2-Dichloroethene	20.1	21.1		ug/L		105	70 - 125
cis-1,3-Dichloropropene	20.1	18.3		ug/L		91	70 - 130
Dibromomethane	20.1	22.8		ug/L		114	75 - 125
Dichlorobromomethane	20.1	20.4		ug/L		102	75 - 120
Dichlorodifluoromethane	20.1	23.8		ug/L		119	30 - 155
Ethylbenzene	20.1	20.6		ug/L		103	75 - 125
Ethylene Dibromide	20.1	18.7		ug/L		93	80 - 120
Hexachlorobutadiene	20.1	22.0		ug/L		109	50 - 140
Isopropylbenzene	20.1	21.1		ug/L		105	75 - 125
Methyl tert-butyl ether	20.1	20.2		ug/L		101	65 - 125
Methylene Chloride	20.1	21.7		ug/L		108	55 - 140
m-Xylene & p-Xylene	20.1	20.4		ug/L		102	75 - 130
Naphthalene	20.1	17.5		ug/L		87	55 - 140
n-Butylbenzene	20.1	20.4		ug/L		102	70 - 135
N-Propylbenzene	20.1	19.8		ug/L		99	70 - 130
o-Xylene	20.1	20.0		ug/L		100	80 - 120
sec-Butylbenzene	20.1	20.1		ug/L		100	70 - 125
Styrene	20.1	19.6		ug/L		98	65 - 135
tert-Butylbenzene	20.1	20.5		ug/L		102	70 - 130
Tetrachloroethene	20.1	21.3		ug/L		106	45 - 150
Toluene	20.1	21.0		ug/L		104	75 - 120
trans-1,2-Dichloroethene	20.1	20.5		ug/L		102	60 - 140
trans-1,3-Dichloropropene	20.1	18.3		ug/L		91	55 - 140
Trichloroethene	20.1	22.8		ug/L		114	70 - 125
Trichlorofluoromethane	20.1	22.1		ug/L		110	60 - 145
Vinyl chloride	20.1	20.6		ug/L		102	50 - 145

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		75 - 120
Toluene-d8 (Surr)	99		85 - 120
Trifluorotoluene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	107		85 - 115
1,2-Dichloroethane-d4 (Surr)	100		70 - 120

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-150660/7

Matrix: Water

Analysis Batch: 150660

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	20.1	21.0		ug/L		105	80 - 130	0	30
1,1,1-Trichloroethane	20.1	23.5		ug/L		117	65 - 130	4	30
1,1,2,2-Tetrachloroethane	20.1	18.7		ug/L		93	65 - 130	3	30
1,1,2-Trichloroethane	20.1	19.7		ug/L		98	75 - 125	1	30
1,1-Dichloroethane	20.1	20.5		ug/L		102	70 - 135	2	30
1,1-Dichloroethene	20.1	22.2		ug/L		111	70 - 130	3	30
1,1-Dichloropropene	20.1	23.0		ug/L		115	75 - 130	2	30
1,2,3-Trichlorobenzene	20.1	20.8		ug/L		104	55 - 140	14	30
1,2,3-Trichloropropane	20.1	20.2		ug/L		101	75 - 125	2	30
1,2,4-Trichlorobenzene	20.1	19.8		ug/L		99	65 - 135	6	30
1,2,4-Trimethylbenzene	20.1	20.2		ug/L		101	75 - 130	2	30
1,2-Dibromo-3-Chloropropane	20.1	16.1		ug/L		80	50 - 130	11	30
1,2-Dichlorobenzene	20.1	20.0		ug/L		100	70 - 120	4	30
EDC	20.1	21.6		ug/L		108	70 - 130	0	30
1,2-Dichloropropane	20.1	21.5		ug/L		107	75 - 125	1	30
1,3,5-Trimethylbenzene	20.1	20.3		ug/L		101	75 - 130	1	30
1,3-Dichlorobenzene	20.1	19.9		ug/L		99	75 - 125	1	30
1,3-Dichloropropane	20.1	19.0		ug/L		95	75 - 125	2	30
1,4-Dichlorobenzene	20.1	20.1		ug/L		100	75 - 125	2	30
2,2-Dichloropropane	20.1	21.9		ug/L		109	70 - 135	0	30
2-Chlorotoluene	20.1	19.9		ug/L		99	75 - 125	3	30
4-Chlorotoluene	20.1	19.3		ug/L		96	75 - 130	3	30
4-Isopropyltoluene	20.1	21.1		ug/L		105	75 - 130	0	30
Benzene	20.1	21.2		ug/L		106	80 - 120	1	30
Bromobenzene	20.1	20.1		ug/L		100	75 - 125	1	30
Bromoform	20.1	18.0		ug/L		90	70 - 130	1	30
Bromomethane	20.1	19.9		ug/L		99	30 - 145	5	30
Carbon tetrachloride	20.1	24.4		ug/L		122	65 - 140	1	30
Chlorobenzene	20.1	20.4		ug/L		102	80 - 120	1	30
Chlorobromomethane	20.1	21.2		ug/L		106	65 - 130	3	30
Chlorodibromomethane	20.1	19.9		ug/L		99	60 - 135	1	30
Chloroethane	20.1	23.6		ug/L		118	60 - 135	10	30
Chloroform	20.1	22.0		ug/L		109	65 - 135	5	30
Chloromethane	20.1	19.6		ug/L		98	40 - 125	4	30
cis-1,2-Dichloroethene	20.1	22.1		ug/L		110	70 - 125	4	30
cis-1,3-Dichloropropene	20.1	18.2		ug/L		91	70 - 130	1	30
Dibromomethane	20.1	23.2		ug/L		116	75 - 125	2	30
Dichlorobromomethane	20.1	20.3		ug/L		101	75 - 120	0	30
Dichlorodifluoromethane	20.1	24.1		ug/L		120	30 - 155	1	30
Ethylbenzene	20.1	20.8		ug/L		104	75 - 125	1	30
Ethylene Dibromide	20.1	19.1		ug/L		95	80 - 120	2	30
Hexachlorobutadiene	20.1	23.8		ug/L		119	50 - 140	8	30
Isopropylbenzene	20.1	22.4		ug/L		112	75 - 125	6	30
Methyl tert-butyl ether	20.1	20.6		ug/L		103	65 - 125	2	30
Methylene Chloride	20.1	22.0		ug/L		110	55 - 140	2	30
m-Xylene & p-Xylene	20.1	21.1		ug/L		105	75 - 130	3	30
Naphthalene	20.1	19.3		ug/L		96	55 - 140	10	30
n-Butylbenzene	20.1	21.3		ug/L		106	70 - 135	4	30

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 580-150660/7**

**Matrix: Water**

**Analysis Batch: 150660**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	20.1	19.8		ug/L		99	70 - 130	0	30
o-Xylene	20.1	21.2		ug/L		106	80 - 120	6	30
sec-Butylbenzene	20.1	20.8		ug/L		104	70 - 125	4	30
Styrene	20.1	20.4		ug/L		101	65 - 135	4	30
tert-Butylbenzene	20.1	20.8		ug/L		104	70 - 130	2	30
Tetrachloroethene	20.1	22.2		ug/L		110	45 - 150	4	30
Toluene	20.1	21.2		ug/L		106	75 - 120	1	30
trans-1,2-Dichloroethene	20.1	22.3		ug/L		111	60 - 140	9	30
trans-1,3-Dichloropropene	20.1	18.2		ug/L		91	55 - 140	1	30
Trichloroethene	20.1	22.6		ug/L		113	70 - 125	1	30
Trichlorofluoromethane	20.1	22.2		ug/L		111	60 - 145	1	30
Vinyl chloride	20.1	21.0		ug/L		105	50 - 145	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	108		75 - 120
Toluene-d8 (Surr)	102		85 - 120
Trifluorotoluene (Surr)	110		80 - 120
Dibromofluoromethane (Surr)	106		85 - 115
1,2-Dichloroethane-d4 (Surr)	99		70 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-150587/5**

**Matrix: Water**

**Analysis Batch: 150587**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/10/13 16:59	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150		12/10/13 16:59	1
Trifluorotoluene (Surr)	115		50 - 150		12/10/13 16:59	1

**Lab Sample ID: LCS 580-150587/6**

**Matrix: Water**

**Analysis Batch: 150587**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1.00	0.886		mg/L		89	79 - 110

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	99		50 - 150
Trifluorotoluene (Surr)	101		50 - 150

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-150587/7

Matrix: Water

Analysis Batch: 150587

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	1.00	0.944		mg/L		94	79 - 110	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	100		50 - 150						
Trifluorotoluene (Surr)	107		50 - 150						

## Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-150539/1-A

Matrix: Water

Analysis Batch: 150531

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 150539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010		ug/L		12/10/13 07:12	12/10/13 11:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>						
1,2-Dibromopropane	93		70 - 130						
							Prepared	Analyzed	Dil Fac
							12/10/13 07:12	12/10/13 11:01	1

Lab Sample ID: LCS 580-150539/2-A

Matrix: Water

Analysis Batch: 150531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide	0.0573	0.0668		ug/L		117	70 - 130		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
1,2-Dibromopropane	107		70 - 130						

Lab Sample ID: LCSD 580-150539/3-A

Matrix: Water

Analysis Batch: 150531

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 150539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.0573	0.0681		ug/L		119	70 - 130	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
1,2-Dibromopropane	101		70 - 130						

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-150721/20-A

Matrix: Water

Analysis Batch: 150770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 150721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/12/13 12:15	12/12/13 14:54	1

TestAmerica Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 580-150721/21-A  
 Matrix: Water  
 Analysis Batch: 150770

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 150721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00200		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-150721/22-A  
 Matrix: Water  
 Analysis Batch: 150770

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 150721

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00209		mg/L		104	80 - 120	4	20

Lab Sample ID: LCSSRM 580-150721/23-A  
 Matrix: Water  
 Analysis Batch: 150770

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 150721

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00211		mg/L		105	75 - 125

# Lab Chronicle

Client: Blaes Environmental Inc.  
 Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

**Client Sample ID: MW-1**

**Lab Sample ID: 580-41542-1**

**Date Collected: 12/05/13 11:15**

**Matrix: Water**

**Date Received: 12/06/13 09:16**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	150660	12/11/13 17:32	EB1	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	150587	12/10/13 19:13	ERZ	TAL SEA
Total/NA	Prep	8011			150539	12/10/13 07:12	SGH	TAL SEA
Total/NA	Analysis	8011		1	150531	12/10/13 14:24	SGH	TAL SEA
Total/NA	Prep	7470A			150721	12/12/13 12:15	PAB	TAL SEA
Total/NA	Analysis	7470A		1	150770	12/12/13 15:54	FCW	TAL SEA

**Client Sample ID: MW-2**

**Lab Sample ID: 580-41542-2**

**Date Collected: 12/05/13 11:30**

**Matrix: Water**

**Date Received: 12/06/13 09:16**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	150660	12/11/13 17:55	EB1	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	150587	12/10/13 19:35	ERZ	TAL SEA
Total/NA	Prep	8011			150539	12/10/13 07:12	SGH	TAL SEA
Total/NA	Analysis	8011		1	150531	12/10/13 14:50	SGH	TAL SEA
Total/NA	Prep	7470A			150721	12/12/13 12:15	PAB	TAL SEA
Total/NA	Analysis	7470A		1	150770	12/12/13 15:57	FCW	TAL SEA

**Laboratory References:**

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

## Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: CIRCLE K # 6049 KENNEWICK WA

TestAmerica Job ID: 580-41542-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-41542-1	MW-1	Water	12/05/13 11:15	12/06/13 09:16
580-41542-2	MW-2	Water	12/05/13 11:30	12/06/13 09:16

1

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## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-41542-1

**Login Number: 41542**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: McDaniel, Ronald T**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

Eurofins TestAmerica, Seattle  
5755 8th Street East  
Tacoma, WA 98424  
Tel: (253)922-2310


Laboratory Job ID: 580-89611-1

Client Project/Site: Circle K #6049 Kennewick, WA

**For:**

Blaes Environmental Inc.  
45 E Monterey Way  
Suite 200  
Phoenix, Arizona 85012

Attn: Dan Blaes



Authorized for release by:  
10/4/2019 2:03:26 PM

Kristine Allen, Manager of Project Management  
(253)248-4970

[kristine.allen@testamericainc.com](mailto:kristine.allen@testamericainc.com)

Designee for

Elaine Walker, Project Manager II  
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### LINKS

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results through  
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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

**Job ID: 580-89611-1**

**Laboratory: Eurofins TestAmerica, Seattle**

## Narrative

### CASE NARRATIVE

**Client: Blaes Environmental Inc.**  
**Project: Circle K #6049 Kennewick, WA**  
**Report Number: 580-89611-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 09/26/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

A Chain-of-Custody (COC) was not received with these samples: Water (580-89611-1). The client provided a COC via email.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

**Sample Water (580-89611-1) was analyzed for volatile organic compounds (GC-MS) in accordance with 8260C.** The samples were analyzed on 10/01/2019.

The continuing calibration verification (CCV) associated with batch 580-312807 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-312807 recovered above the upper control limit for 2-Chloroethyl vinyl ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: Water (580-89611-1).

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-312807 was outside criteria for the following analyte(s): 2-Hexanone and 2-Butanone (MEK). As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Definitions/Glossary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

**Client Sample ID: Water**

**Lab Sample ID: 580-89611-1**

Date Collected: 09/24/19 06:30

Matrix: Water

Date Received: 09/26/19 11:30

**Method: 8260C - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			10/01/19 16:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/01/19 16:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/01/19 16:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/01/19 16:03	1
1,1-Dichloroethane	ND		0.20		ug/L			10/01/19 16:03	1
1,1-Dichloroethene	ND		0.20		ug/L			10/01/19 16:03	1
1,1-Dichloropropene	ND		0.20		ug/L			10/01/19 16:03	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			10/01/19 16:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/01/19 16:03	1
1,2,4-Trichlorobenzene	ND		0.30		ug/L			10/01/19 16:03	1
1,2,4-Trimethylbenzene	ND		0.30		ug/L			10/01/19 16:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/01/19 16:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/01/19 16:03	1
1,2-Dichloropropane	ND		0.20		ug/L			10/01/19 16:03	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/01/19 16:03	1
1,3-Dichlorobenzene	ND		0.30		ug/L			10/01/19 16:03	1
1,3-Dichloropropane	ND		0.20		ug/L			10/01/19 16:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/01/19 16:03	1
2,2-Dichloropropane	ND		0.50		ug/L			10/01/19 16:03	1
2-Chlorotoluene	ND		0.50		ug/L			10/01/19 16:03	1
4-Chlorotoluene	ND		0.30		ug/L			10/01/19 16:03	1
4-Isopropyltoluene	ND		0.30		ug/L			10/01/19 16:03	1
Benzene	ND		0.20		ug/L			10/01/19 16:03	1
Bromobenzene	ND		0.20		ug/L			10/01/19 16:03	1
Bromoform	ND		0.50		ug/L			10/01/19 16:03	1
Bromomethane	ND		0.50		ug/L			10/01/19 16:03	1
Carbon tetrachloride	ND		0.20		ug/L			10/01/19 16:03	1
Chlorobenzene	ND		0.20		ug/L			10/01/19 16:03	1
Chlorobromomethane	ND		0.20		ug/L			10/01/19 16:03	1
Chlorodibromomethane	ND		0.20		ug/L			10/01/19 16:03	1
Chloroethane	ND		0.50		ug/L			10/01/19 16:03	1
Chloroform	ND		0.20		ug/L			10/01/19 16:03	1
Chloromethane	ND		0.50		ug/L			10/01/19 16:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/01/19 16:03	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			10/01/19 16:03	1
Dibromomethane	ND		0.20		ug/L			10/01/19 16:03	1
Dichlorobromomethane	ND		0.20		ug/L			10/01/19 16:03	1
Dichlorodifluoromethane	ND		0.40		ug/L			10/01/19 16:03	1
EDC	ND		0.20		ug/L			10/01/19 16:03	1
Ethylbenzene	ND		0.20		ug/L			10/01/19 16:03	1
Hexachlorobutadiene	ND		0.50		ug/L			10/01/19 16:03	1
Isopropylbenzene	ND		1.0		ug/L			10/01/19 16:03	1
Methyl tert-butyl ether	ND		0.30		ug/L			10/01/19 16:03	1
Methylene Chloride	ND		5.0		ug/L			10/01/19 16:03	1
m-Xylene & p-Xylene	ND		0.50		ug/L			10/01/19 16:03	1
Naphthalene	ND		1.0		ug/L			10/01/19 16:03	1
n-Butylbenzene	ND		0.50		ug/L			10/01/19 16:03	1
N-Propylbenzene	ND		0.30		ug/L			10/01/19 16:03	1
o-Xylene	ND		0.50		ug/L			10/01/19 16:03	1

# Client Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

**Client Sample ID: Water**

**Lab Sample ID: 580-89611-1**

**Date Collected: 09/24/19 06:30**

**Matrix: Water**

**Date Received: 09/26/19 11:30**

**Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			10/01/19 16:03	1
Styrene	ND		0.50		ug/L			10/01/19 16:03	1
tert-Butylbenzene	ND		0.50		ug/L			10/01/19 16:03	1
Tetrachloroethene	ND		0.50		ug/L			10/01/19 16:03	1
Toluene	ND		0.20		ug/L			10/01/19 16:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/01/19 16:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/01/19 16:03	1
Trichloroethene	ND		0.20		ug/L			10/01/19 16:03	1
Trichlorofluoromethane	ND		0.50		ug/L			10/01/19 16:03	1
Vinyl chloride	ND		0.020		ug/L			10/01/19 16:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	107		80 - 120					10/01/19 16:03	1
4-Bromofluorobenzene (Surr)	98		80 - 120					10/01/19 16:03	1
Dibromofluoromethane (Surr)	105		80 - 120					10/01/19 16:03	1
Toluene-d8 (Surr)	94		80 - 120					10/01/19 16:03	1
Trifluorotoluene (Surr)	103		80 - 120					10/01/19 16:03	1

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-312807/7

Matrix: Water

Analysis Batch: 312807

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			10/01/19 14:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/01/19 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/01/19 14:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/01/19 14:16	1
1,1-Dichloroethane	ND		0.20		ug/L			10/01/19 14:16	1
1,1-Dichloroethene	ND		0.20		ug/L			10/01/19 14:16	1
1,1-Dichloropropene	ND		0.20		ug/L			10/01/19 14:16	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			10/01/19 14:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/01/19 14:16	1
1,2,4-Trichlorobenzene	ND		0.30		ug/L			10/01/19 14:16	1
1,2,4-Trimethylbenzene	ND		0.30		ug/L			10/01/19 14:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/01/19 14:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/01/19 14:16	1
1,2-Dichloropropane	ND		0.20		ug/L			10/01/19 14:16	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/01/19 14:16	1
1,3-Dichlorobenzene	ND		0.30		ug/L			10/01/19 14:16	1
1,3-Dichloropropane	ND		0.20		ug/L			10/01/19 14:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/01/19 14:16	1
2,2-Dichloropropane	ND		0.50		ug/L			10/01/19 14:16	1
2-Chlorotoluene	ND		0.50		ug/L			10/01/19 14:16	1
4-Chlorotoluene	ND		0.30		ug/L			10/01/19 14:16	1
4-Isopropyltoluene	ND		0.30		ug/L			10/01/19 14:16	1
Benzene	ND		0.20		ug/L			10/01/19 14:16	1
Bromobenzene	ND		0.20		ug/L			10/01/19 14:16	1
Bromoform	ND		0.50		ug/L			10/01/19 14:16	1
Bromomethane	ND		0.50		ug/L			10/01/19 14:16	1
Carbon tetrachloride	ND		0.20		ug/L			10/01/19 14:16	1
Chlorobenzene	ND		0.20		ug/L			10/01/19 14:16	1
Chlorobromomethane	ND		0.20		ug/L			10/01/19 14:16	1
Chlorodibromomethane	ND		0.20		ug/L			10/01/19 14:16	1
Chloroethane	ND		0.50		ug/L			10/01/19 14:16	1
Chloroform	ND		0.20		ug/L			10/01/19 14:16	1
Chloromethane	ND		0.50		ug/L			10/01/19 14:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/01/19 14:16	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			10/01/19 14:16	1
Dibromomethane	ND		0.20		ug/L			10/01/19 14:16	1
Dichlorobromomethane	ND		0.20		ug/L			10/01/19 14:16	1
Dichlorodifluoromethane	ND		0.40		ug/L			10/01/19 14:16	1
EDC	ND		0.20		ug/L			10/01/19 14:16	1
Ethylbenzene	ND		0.20		ug/L			10/01/19 14:16	1
Hexachlorobutadiene	ND		0.50		ug/L			10/01/19 14:16	1
Isopropylbenzene	ND		1.0		ug/L			10/01/19 14:16	1
Methyl tert-butyl ether	ND		0.30		ug/L			10/01/19 14:16	1
Methylene Chloride	ND		5.0		ug/L			10/01/19 14:16	1
m-Xylene & p-Xylene	ND		0.50		ug/L			10/01/19 14:16	1
Naphthalene	ND		1.0		ug/L			10/01/19 14:16	1
n-Butylbenzene	ND		0.50		ug/L			10/01/19 14:16	1
N-Propylbenzene	ND		0.30		ug/L			10/01/19 14:16	1

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-312807/7

Matrix: Water

Analysis Batch: 312807

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	ND		0.50		ug/L			10/01/19 14:16	1
sec-Butylbenzene	ND		1.0		ug/L			10/01/19 14:16	1
Styrene	ND		0.50		ug/L			10/01/19 14:16	1
tert-Butylbenzene	ND		0.50		ug/L			10/01/19 14:16	1
Tetrachloroethene	ND		0.50		ug/L			10/01/19 14:16	1
Toluene	ND		0.20		ug/L			10/01/19 14:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/01/19 14:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/01/19 14:16	1
Trichloroethene	ND		0.20		ug/L			10/01/19 14:16	1
Trichlorofluoromethane	ND		0.50		ug/L			10/01/19 14:16	1
Vinyl chloride	ND		0.020		ug/L			10/01/19 14:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		10/01/19 14:16	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/01/19 14:16	1
Dibromofluoromethane (Surr)	102		80 - 120		10/01/19 14:16	1
Toluene-d8 (Surr)	99		80 - 120		10/01/19 14:16	1
Trifluorotoluene (Surr)	108		80 - 120		10/01/19 14:16	1

Lab Sample ID: LCS 580-312807/4

Matrix: Water

Analysis Batch: 312807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	5.00	4.94		ug/L		99	74 - 128
1,1,2,2-Tetrachloroethane	5.00	4.93		ug/L		99	69 - 139
1,1,2-Trichloroethane	5.00	5.14		ug/L		103	80 - 127
1,1-Dichloroethane	5.00	4.95		ug/L		99	74 - 135
1,1-Dichloroethene	5.00	4.96		ug/L		99	71 - 126
1,1-Dichloropropene	5.00	5.04		ug/L		101	72 - 132
1,2,3-Trichlorobenzene	5.00	5.51		ug/L		110	75 - 137
1,2,3-Trichloropropane	5.00	5.04		ug/L		101	80 - 127
1,2,4-Trichlorobenzene	5.00	5.06		ug/L		101	79 - 130
1,2,4-Trimethylbenzene	5.00	5.36		ug/L		107	78 - 136
1,2-Dibromo-3-Chloropropane	5.00	4.38		ug/L		88	69 - 130
1,2-Dichlorobenzene	5.00	5.22		ug/L		104	80 - 129
1,2-Dichloropropane	5.00	5.33		ug/L		107	80 - 130
1,3,5-Trimethylbenzene	5.00	5.20		ug/L		104	80 - 139
1,3-Dichlorobenzene	5.00	5.42		ug/L		108	80 - 130
1,3-Dichloropropane	5.00	5.28		ug/L		106	80 - 130
1,4-Dichlorobenzene	5.00	5.26		ug/L		105	80 - 129
2,2-Dichloropropane	5.00	4.97		ug/L		99	58 - 150
2-Chlorotoluene	5.00	5.01		ug/L		100	80 - 136
4-Chlorotoluene	5.00	5.26		ug/L		105	80 - 130
4-Isopropyltoluene	5.00	5.46		ug/L		109	78 - 132
Benzene	5.00	5.42		ug/L		108	73 - 133
Bromobenzene	5.00	5.03		ug/L		101	80 - 130

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-312807/4

Matrix: Water

Analysis Batch: 312807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	5.00	4.80		ug/L		96	69 - 137
Bromomethane	5.00	5.20		ug/L		104	68 - 120
Carbon tetrachloride	5.00	4.82		ug/L		96	71 - 132
Chlorobenzene	5.00	5.15		ug/L		103	80 - 123
Chlorobromomethane	5.00	5.01		ug/L		100	79 - 131
Chlorodibromomethane	5.00	4.93		ug/L		99	76 - 131
Chloroethane	5.00	5.18		ug/L		104	49 - 135
Chloroform	5.00	4.84		ug/L		97	80 - 130
Chloromethane	5.00	4.76		ug/L		95	32 - 143
cis-1,2-Dichloroethene	5.00	5.31		ug/L		106	72 - 130
cis-1,3-Dichloropropene	5.00	5.12		ug/L		102	66 - 141
Dibromomethane	5.00	4.83		ug/L		97	65 - 141
Dichlorobromomethane	5.00	5.11		ug/L		102	74 - 131
Dichlorodifluoromethane	5.00	3.41		ug/L		68	20 - 137
EDC	5.00	5.28		ug/L		106	74 - 130
Ethylbenzene	5.00	5.23		ug/L		105	80 - 130
Hexachlorobutadiene	5.00	5.62		ug/L		112	72 - 138
Isopropylbenzene	5.00	5.28		ug/L		106	75 - 137
Methyl tert-butyl ether	5.00	4.93		ug/L		99	60 - 150
Methylene Chloride	5.00	5.05		ug/L		101	75 - 134
m-Xylene & p-Xylene	5.00	5.25		ug/L		105	78 - 130
Naphthalene	5.00	4.93		ug/L		99	64 - 132
n-Butylbenzene	5.00	5.20		ug/L		104	73 - 135
N-Propylbenzene	5.00	5.14		ug/L		103	77 - 142
o-Xylene	5.00	5.17		ug/L		103	80 - 139
sec-Butylbenzene	5.00	5.54		ug/L		111	78 - 140
Styrene	5.00	5.14		ug/L		103	74 - 136
tert-Butylbenzene	5.00	5.17		ug/L		103	77 - 140
Tetrachloroethene	5.00	5.00		ug/L		100	75 - 131
Toluene	5.00	5.52		ug/L		110	80 - 126
trans-1,2-Dichloroethene	5.00	5.12		ug/L		102	63 - 133
trans-1,3-Dichloropropene	5.00	4.89		ug/L		98	71 - 128
Trichloroethene	5.00	5.19		ug/L		104	72 - 136
Trichlorofluoromethane	5.00	5.12		ug/L		102	60 - 132
Vinyl chloride	5.00	4.90		ug/L		98	52 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	99		80 - 120
Trifluorotoluene (Surr)	94		80 - 120

# QC Sample Results

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-312807/5

Matrix: Water

Analysis Batch: 312807

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.92		ug/L		98	79 - 127	0	20
1,1,1-Trichloroethane	5.00	4.79		ug/L		96	74 - 128	3	14
1,1,2,2-Tetrachloroethane	5.00	5.01		ug/L		100	69 - 139	1	22
1,1,2-Trichloroethane	5.00	5.25		ug/L		105	80 - 127	2	19
1,1-Dichloroethane	5.00	4.97		ug/L		99	74 - 135	0	20
1,1-Dichloroethene	5.00	4.88		ug/L		98	71 - 126	2	17
1,1-Dichloropropene	5.00	5.01		ug/L		100	72 - 132	1	13
1,2,3-Trichlorobenzene	5.00	5.88		ug/L		118	75 - 137	7	20
1,2,3-Trichloropropane	5.00	5.04		ug/L		101	80 - 127	0	20
1,2,4-Trichlorobenzene	5.00	5.39		ug/L		108	79 - 130	6	20
1,2,4-Trimethylbenzene	5.00	5.53		ug/L		111	78 - 136	3	20
1,2-Dibromo-3-Chloropropane	5.00	4.91		ug/L		98	69 - 130	11	26
1,2-Dichlorobenzene	5.00	5.32		ug/L		106	80 - 129	2	14
1,2-Dichloropropane	5.00	5.19		ug/L		104	80 - 130	3	14
1,3,5-Trimethylbenzene	5.00	5.21		ug/L		104	80 - 139	0	20
1,3-Dichlorobenzene	5.00	5.48		ug/L		110	80 - 130	1	12
1,3-Dichloropropane	5.00	5.38		ug/L		108	80 - 130	2	19
1,4-Dichlorobenzene	5.00	5.13		ug/L		103	80 - 129	2	11
2,2-Dichloropropane	5.00	4.85		ug/L		97	58 - 150	2	28
2-Chlorotoluene	5.00	5.12		ug/L		102	80 - 136	2	20
4-Chlorotoluene	5.00	5.24		ug/L		105	80 - 130	0	20
4-Isopropyltoluene	5.00	5.54		ug/L		111	78 - 132	1	14
Benzene	5.00	5.36		ug/L		107	73 - 133	1	20
Bromobenzene	5.00	5.12		ug/L		102	80 - 130	2	20
Bromoform	5.00	4.82		ug/L		96	69 - 137	0	20
Bromomethane	5.00	5.19		ug/L		104	68 - 120	0	18
Carbon tetrachloride	5.00	4.75		ug/L		95	71 - 132	1	15
Chlorobenzene	5.00	5.11		ug/L		102	80 - 123	1	12
Chlorobromomethane	5.00	4.93		ug/L		99	79 - 131	2	20
Chlorodibromomethane	5.00	5.02		ug/L		100	76 - 131	2	20
Chloroethane	5.00	5.06		ug/L		101	49 - 135	2	27
Chloroform	5.00	4.81		ug/L		96	80 - 130	0	20
Chloromethane	5.00	4.67		ug/L		93	32 - 143	2	23
cis-1,2-Dichloroethene	5.00	5.17		ug/L		103	72 - 130	3	20
cis-1,3-Dichloropropene	5.00	5.13		ug/L		103	66 - 141	0	22
Dibromomethane	5.00	4.88		ug/L		98	65 - 141	1	20
Dichlorobromomethane	5.00	5.02		ug/L		100	74 - 131	2	20
Dichlorodifluoromethane	5.00	3.39		ug/L		68	20 - 137	0	22
EDC	5.00	5.22		ug/L		104	74 - 130	1	15
Ethylbenzene	5.00	5.15		ug/L		103	80 - 130	2	20
Hexachlorobutadiene	5.00	5.67		ug/L		113	72 - 138	1	20
Isopropylbenzene	5.00	5.17		ug/L		103	75 - 137	2	20
Methyl tert-butyl ether	5.00	4.86		ug/L		97	60 - 150	1	25
Methylene Chloride	5.00	4.96	J	ug/L		99	75 - 134	2	18
m-Xylene & p-Xylene	5.00	5.05		ug/L		101	78 - 130	4	20
Naphthalene	5.00	5.22		ug/L		104	64 - 132	6	20
n-Butylbenzene	5.00	5.20		ug/L		104	73 - 135	0	18
N-Propylbenzene	5.00	5.19		ug/L		104	77 - 142	1	20

Eurofins TestAmerica, Seattle

# QC Sample Results

Client: Blaes Environmental Inc.  
 Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-312807/5

Matrix: Water

Analysis Batch: 312807

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	5.00	5.12		ug/L		102	80 - 139	1	20
sec-Butylbenzene	5.00	5.60		ug/L		112	78 - 140	1	20
Styrene	5.00	5.09		ug/L		102	74 - 136	1	20
tert-Butylbenzene	5.00	5.24		ug/L		105	77 - 140	1	20
Tetrachloroethene	5.00	4.97		ug/L		99	75 - 131	1	20
Toluene	5.00	5.50		ug/L		110	80 - 126	0	20
trans-1,2-Dichloroethene	5.00	5.05		ug/L		101	63 - 133	1	17
trans-1,3-Dichloropropene	5.00	4.96		ug/L		99	71 - 128	1	21
Trichloroethene	5.00	4.96		ug/L		99	72 - 136	5	14
Trichlorofluoromethane	5.00	5.03		ug/L		101	60 - 132	2	20
Vinyl chloride	5.00	4.63		ug/L		93	52 - 128	6	21

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	99		80 - 120
Trifluorotoluene (Surr)	96		80 - 120

# Lab Chronicle

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

**Client Sample ID: Water**

**Lab Sample ID: 580-89611-1**

**Date Collected: 09/24/19 06:30**

**Matrix: Water**

**Date Received: 09/26/19 11:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	312807	10/01/19 16:03	CJ	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



# Accreditation/Certification Summary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

## Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20



# Sample Summary

Client: Blaes Environmental Inc.  
Project/Site: Circle K #6049 Kennewick, WA

Job ID: 580-89611-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-89611-1	Water	Water	09/24/19 06:30	09/26/19 11:30	

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



## Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-89611-1

**Login Number: 89611**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Presley, Kim A**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	Client provided after samples received
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	