

SOIL REMEDIATION REPORT

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

**(Former Sunmart #30)
WDOE FSID #36343669
Cleanup Site ID #12145
CE 0471**

PREPARED FOR:



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

SUBMITTED TO:

**STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
1250 ALDER STREET
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PREPARED BY:



**18011 SKY PARK CIRCLE, SUITE H
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BLAES PROJECT #202-06049-06

JANUARY 23, 2022

This *Soil Remediation 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.

Prepared By:
Blaes Environmental Management, Inc.



Daniel M. Blaes, L.G.
President/Principal Geologist
Washington Geologist/Hydrogeologist #2158



Blaes Project #202-06049-06

January 22, 2022

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1.0 INTRODUCTION

Blaes Environmental Management, Inc. (Blaes Environmental), on behalf of Circle K Stores, Inc. (Circle K), has prepared this *Soil Remediation Report* for Circle K Store #2706049 (hereafter referred to as the “site”) located at 6006 West Clearwater Avenue in Kennewick, Washington (Figure 1). The remediation program was conducted as part of an environmental investigation and corrective action effort by Circle K to evaluate the extent of petroleum hydrocarbons in the subsurface at the site and reduce the hydrocarbon concentrations to below acceptable regulatory levels and achieve case closure.

This report details the implementation and operation of the soil remediation program using in-situ soil vapor extraction (VE) remediation technology at the site. This document includes a description of the site background, summary of previous site characterization environmental investigations, remediation well installation and lateral construction piping activities, as well as a description of the remediation equipment, enclosure, and utility installation, and a description of remediation progress that was used to reduce petroleum hydrocarbon concentrations in the subsurface from 2016 through 2021.

The objective of this document is to provide the Washington Department of Environmental Quality (WDOE) with the information and data from the corrective action work so that WDOE can evaluate regulatory hydrocarbon case closure.

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 from 2012 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 SITE 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 km³) 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 km³) 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 waterfalls, 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 ENVIRONMENTAL INVESTIGATIONS

The first subsurface investigation that was conducted at the site was the Environmental Due Diligence Site Assessment 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 as part of a real estate purchase by Circle K. The Site Assessment Program involved drilling and collecting soil samples from one soil boring adjacent to the UST basin and involved hand augering nine angled soil borings and collecting soil samples adjacent to the

existing dispenser islands at the site. Based on the due diligence assessment findings, Circle K confirmed, through laboratory analysis, the presence of Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Volatile Organic Compounds (VOC) concentrations in the samples collected from the soil boring adjacent to the location of the underground storage tanks (USTs) and VOCs below the areas of dispensers D-1/2 and D-7/8 at the site. The location of the soil borings from the 2012 due diligence program are shown on Figure 2.

Following the due diligence program, Circle K conducted an initial site characterization program to investigate the extent of petroleum hydrocarbons in the soil at locations where hydrocarbons were found during the 2012 drilling event the site. The initial site characterization program involved drilling two soil borings (B-2 and B-3) adjacent to dispensers D-1/2 and D-7/8, respectively, to determine the vertical extent of petroleum hydrocarbons in soil beneath these dispensers. Vapor well VE-1A was installed within soil boring B-3 but no vapor well was installed in boring B-2 based on field observations and subsequent laboratory data. An additional vapor extraction well VE-1B was installed close to the location of VE-1A to supplement the remediation well cluster near that dispenser.

The initial site characterization program also included drilling one soil boring on the eastern side of the UST zone (converted into vapor well VE-2) to investigate the vertical extent of hydrocarbons below the UST zone. Finally, during this program, two groundwater monitoring wells (MW-1 and MW-2) were drilled and installed at the site (adjacent to the UST area and adjacent to Dispenser 7/8). The objective of the groundwater wells was to determine if groundwater had been impacted by the hydrocarbons found in the subsurface soil at both release locations. The location of each boring/well from 2013-2014 is shown in Figures 3.

In 2016, two additional remediation vapor extraction wells (VE-3 and VE-4) were installed on the western side of the existing UST zone to assess the subsurface conditions on that side of the tank zone and to install additional vapor wells for future remediation effort. The location of each boring/well from 2016 is shown in Figures 4. Soil laboratory results from the program are summarized in Table 1.

On December 5, 2013, following the installation of the groundwater monitoring wells on the property, Blaes Environmental conducted an initial groundwater monitoring and sampling event. Groundwater sampling consisted of three tasks: 1) measuring the depth to groundwater in each 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. 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 MTBE, among other analytes according to EPA Method 8260B. A second sampling event was conducted at the site on September 24, 2019 but only included groundwater monitoring well MW-2. The depth to groundwater and relative groundwater elevation for the two monitoring wells is presented in Table 2. The groundwater laboratory results from the two sampling events are shown in Table 3.

Laboratory analysis of the groundwater samples collected during both groundwater sampling events to date indicated that no hydrocarbon analytes were found in the groundwater at concentrations exceeding MTCA Cleanup Standards. Note: Blaes Environmental believes that the concentrations of specific hydrocarbon constituents found in groundwater within well MW-1 in 2013 were likely carried down during the drilling of boring MW-1. A report documenting these past site investigation activities, entitled *Initial Soil and Groundwater Site Characterization Report*, was submitted to WDOE on January 20, 2020.

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.

2.7 EXTENT OF HYDROCARBONS IN SOIL AND GROUNDWATER

2.7.1 Lateral and Vertical Extent of Hydrocarbons in Soil

Based on the soil sample laboratory analyses from the borings drilled below the UST zone and below the dispenser 7/8 area at the site, Blaes Environmental has estimated the lateral and vertical extent of petroleum hydrocarbons in the subsurface soil at the site. The vertical extent of petroleum hydrocarbon-impacted soils associated with the hydrocarbon release from the UST zone was defined

based on the analytical results of soil samples collected from a combination of soil borings B-1 and MW-1. The petroleum hydrocarbons associated with the release at the tank zone extended down to a depth of approximately 98 feet below the ground surface. The lateral extent of petroleum hydrocarbons in the vadose zone soil associated with the release from the UST zone was defined at the site based on the analytical results of soil samples collected from lateral soil borings VE-1A, VE-3, and VE-4. The approximate aerial lateral extent is shown the diagram in Appendix A.

The vertical extent of petroleum hydrocarbon-impacted soils associated with the hydrocarbon release from the Dispenser 7/8 area was defined based on the analytical results of soil samples collected from a combination of soil borings B-3/VE-1A and MW-2. The petroleum hydrocarbons associated with the release at the dispenser area extended down to a depth of approximately 50 feet below the ground surface. The lateral extent of petroleum hydrocarbons in the vadose zone soil associated with the release from the dispenser area was approximated based on the estimated average angle of release migration down through coarse grained sediments at the site and based on some of the site data from around the tank zone. The approximate aerial lateral extent is shown the diagram in Appendix A.

2.7.2 Hydrocarbons in Groundwater

Based on the laboratory analytical results of water samples collected from W-1 and MW-2 in 2013 and 2019, it appears that groundwater below the site has not been impacted as a result of the two petroleum hydrocarbon releases above MTCA regulatory action levels. Note: Blaes Environmental believes that the low levels of specific hydrocarbon constituents found in groundwater within well MW-1 in 2013 were likely carried down during the drilling of boring MW-1 and do not represent actual release impact to groundwater below the tank zone.

3.0 SOIL REMEDIATION PROGRAM

Following the evaluation of alternatives for soil remediation, Circle K selected soil vapor extraction as the active on-site soil remediation method at the property. Vapor extraction was selected based on the fact that this remediation method has proven to be technically applicable and cost effective in similar subsurface conditions and with similar hydrocarbon concentration profiles.

3.1 REMEDIATION PROGRAM

A description of each remedial activity is presented in the following sections. Supporting figures, tables, and other documents are presented as attachments within this document.

3.1.1 Remediation Design, Permitting, and Installation

Prior to the remedial system installation process, a remedial system design was generated detailing the on-site treatment system location and system details. Upon completion of the remedial design, requisite permits were procured from the City of Kennewick and the Benton Clean Air Agency. A description of each task is presented as follows.

3.1.1.1 Remediation Design

Prior to remedial system installation activities, a system design plan set was prepared by Circle K for the site. The design plan set included remedial system installation specifications and electrical, enclosure, and utility designs.

3.1.1.2 Permitting

The remedial permitting process involved obtaining a permit for electrical and mechanical structures from the City of Kennewick and obtaining a permit to operate the soil vapor extraction system from the air quality agency. In February 2016, Blaes Environmental submitted the Air Quality general permit application for the planned oxidizer at the site to the Benton Clean Air Agency in Kennewick, Washington. On July 27, 2016, the agency approved the permit. A copy of the permit is presented in Appendix B.

3.1.1.3 Enclosure and Electric Utility Installation

A six-foot high chain-link remedial enclosure was installed by Rick's Custom Fencing of Kennewick, Washington on the west-central portion of the site to enclose the remediation equipment and remediation piping manifold. The enclosure has a gate on the northern side and is secured with a locking mechanism to discourage unauthorized entry into the treatment area.

Blaes Environmental worked together with the utility representatives of the City of Kennewick and the electrical subcontractor for Circle K to install the required electric service to the remedial equipment. A 240-volt, three-phase, electric power service was brought to the treatment enclosure from a dedicated transformer and meter set located on the northeastern corner of the remediation enclosure. Two electric subpanels were mounted on a separate support stands just outside the remedial enclosure to deliver power to the remediation equipment inside the fence. The location of the electric service to the remediation enclosure is shown in Figure 6.

3.1.1.4 Vapor Extraction Equipment Installation

In September 2016, an all-electric, skid-mounted, catalytic oxidizer (Mako #376) was transported to the site and placed within the remediation enclosure. The oxidizer has the capability to treat total hydrocarbon vapor concentrations up to approximately 4,000 parts per million volume (ppmv) without dilution. The system has an internal 240-volt three phase electrical disconnect and can generate up to 200 cubic feet per minute (cfm) flowrate and up to 120 inches of water vacuum. The oxidizer was test-fired following electrical installation and inspection. The location of the remediation equipment is shown on Figure 6.

3.1.2 Remediation Equipment Startup

On October 24, 2016, the vapor extraction soil remediation program was started at the site. This initial remediation event was conducted over the period of three days to test the vapor hydrocarbon concentration from each individual well at the site and to test the influent and effluent vapor concentrations of the catalytic oxidizer. Each well was connected, one after the other, to the oxidizer using temporary aboveground flexible hoses.

The vapor extraction/catalytic oxidizer system was started with the manual dilution valve on the oxidizer

fully closed and extracting vapors from select vapor extraction lines systematically using above ground flexible piping. The extraction and oxidation system components were checked and various controls and flow characteristics monitored and recorded upon system startup. Data recorded during the initial startup phase included the inlet and total system flow rates, vacuum, temperature, and vapor concentrations associated with the VE system. Vapor samples were collected from the remediation system (Influent and Effluent) as well as from five wells on the site. Vapor samples labeled Vapor A, B, C, D, and E corresponded to wells VE-2, MW-1, VE-1B, VE-1A, and MW-2, respectively. The correlation of the vapor samples to locations on the site is shown in Figure 5. The vapor extraction data and laboratory vapor laboratory results are presented in Table 4 and Table 5.

Note, vapor samples were not collected from wells VE-3 and VE-4 during the startup in 2016 since these wells were not in the release source areas. The operation and maintenance sheets for this remediation startup event are presented in Appendix C. The vapor lab reports for the 2016 remediation event are presented in Appendix D.

3.1.3 Remediation System Operation, Monitoring, and Maintenance

During the summer periods of 2017, 2019, and 2021, Blaes Environmental operated the vapor extraction remediation system at the site extracting hydrocarbons from a combination of wells on the property. The remediation events of 2017 and 2019 were targeted at the specific release locations while the remediation event in 2021 was designed to extract from all wells. Each event was conducted by running flexible hoses to the extraction wells as shown in Figures 6, 7, and 8.

During the period of April 27, 2017 to August 26, 2017, hydrocarbons were extracted from a combination of wells VE-2 and MW-1 in the release source zone under the existing USTs. The operational data sheets and vapor lab reports from the remediation event in 2017 are included in Appendix E and Appendix F.

During the period of August 15, 2019 to August 22, 2019, hydrocarbons were extracted in the release zone under the area of Dispenser 7/8 using wells VE-1A and MW-2. The operational data sheets and vapor lab reports from the remediation event in 2019 are included in Appendix G and Appendix H.

During the period of August 8, 2022 to September, 2019, hydrocarbons were extracted from all of the wells systematically (one after another) to maximize the mass removal and to evaluate the effectiveness of

the remediation effort since 2016. From August 8, 2021 to August 11, 2021, the vapor extraction program focused remediation from well MW-2. From August 11, 2021 to August 15, 2021, the vapor extraction program focused remediation from well VE-1B. From August 15, 2021 to August 20, 2021, the vapor extraction program focused remediation from well VE-1A. From August 20, 2021 to August 23, 2021, the vapor extraction program focused remediation from well VE-2. From August 23, 2021 to August 26, 2021, the vapor extraction program focused remediation from well VE-4. From August 26, 2021 to August 30, 2021, the vapor extraction program focused remediation from well VE-3. From August 30, 2021 to September 2, 2021, the vapor extraction program focused remediation from well MW-1. The operational data sheets and vapor lab reports from the remediation event in 2021 are included in Appendix I and Appendix J.

During each visit the system, Blaes Environmental recorded system parameters such as temperature, vacuum, flow rate, total run-time, PID readings, and system alarms, as applicable. Regular maintenance was also performed during periodic site visits, as necessary. Remediation system maintenance included removing water condensate and solids from their respective filters, lubricating and/or oiling the vacuum blower, and tightening the blower belts for proper operation.

During the total remediation period from October 2016 through September 2021, the vapor extraction system ran for a total of 2,814.9 hours achieving a cumulative up-time ranging from 42% to 91% depending on the seasonal period of operation. During the remedial period, the VE system maintained an average temperature above 600⁰ Fahrenheit and average flowrate of approximately 104 cfm. The remediation program resulted in a cumulative mass removed of approximately 210 pounds of VOCs (approximately 36 gallons of gasoline) and a destruction efficiency averaging above 90%. The influent vapor concentrations from the extraction wells (as represented by the system data) became asymptotic over time. The vapor extraction system data and parameters are presented in Table 4.

3.1.4 Vapor Extraction System Sampling

During the seasonal operation periods from 2016 through 2021, the vapor extraction system was sampled on 21 occasions. All vapor samples were collected following local, state, and federally accepted procedures. Vapor samples were collected in new 1-liter Tedlar™ sampling bags, sealed and placed immediately in a cooler or opaque container to protect the sample from direct sunlight during shipment to a Washington State-certified laboratory for analysis (Fremont Analytical). Sample collection followed

proper chain-of-custody procedures. Each vapor sample was analyzed for VOCs according to EPA Method 8260 and for Volatile Fuel Hydrocarbons (Gasoline) using Method NWTPH-Gx.

3.1.5 Vapor Sample Analytical Results

Laboratory analysis of vapor samples collected during remediation from October 24, 2016 through September 2, 2021 indicated that petroleum hydrocarbons were effectively being removed from vadose zone soils at the site. During the remedial period, the influent VFH concentrations were the highest at the start of the remediation program in well VE-2 at a Volatile Fuel Hydrocarbon (VFH) concentration of 2063 ppmv. At the end of the remediation program in September 2021, the highest VFH vapor concentration from any of the wells at the site was 26 ppmv. This represented a 99.9% reduction from start to end of the overall remediation period. The vapor lab data showing the overall reduction in vapor concentrations through time are presented in Table 5.

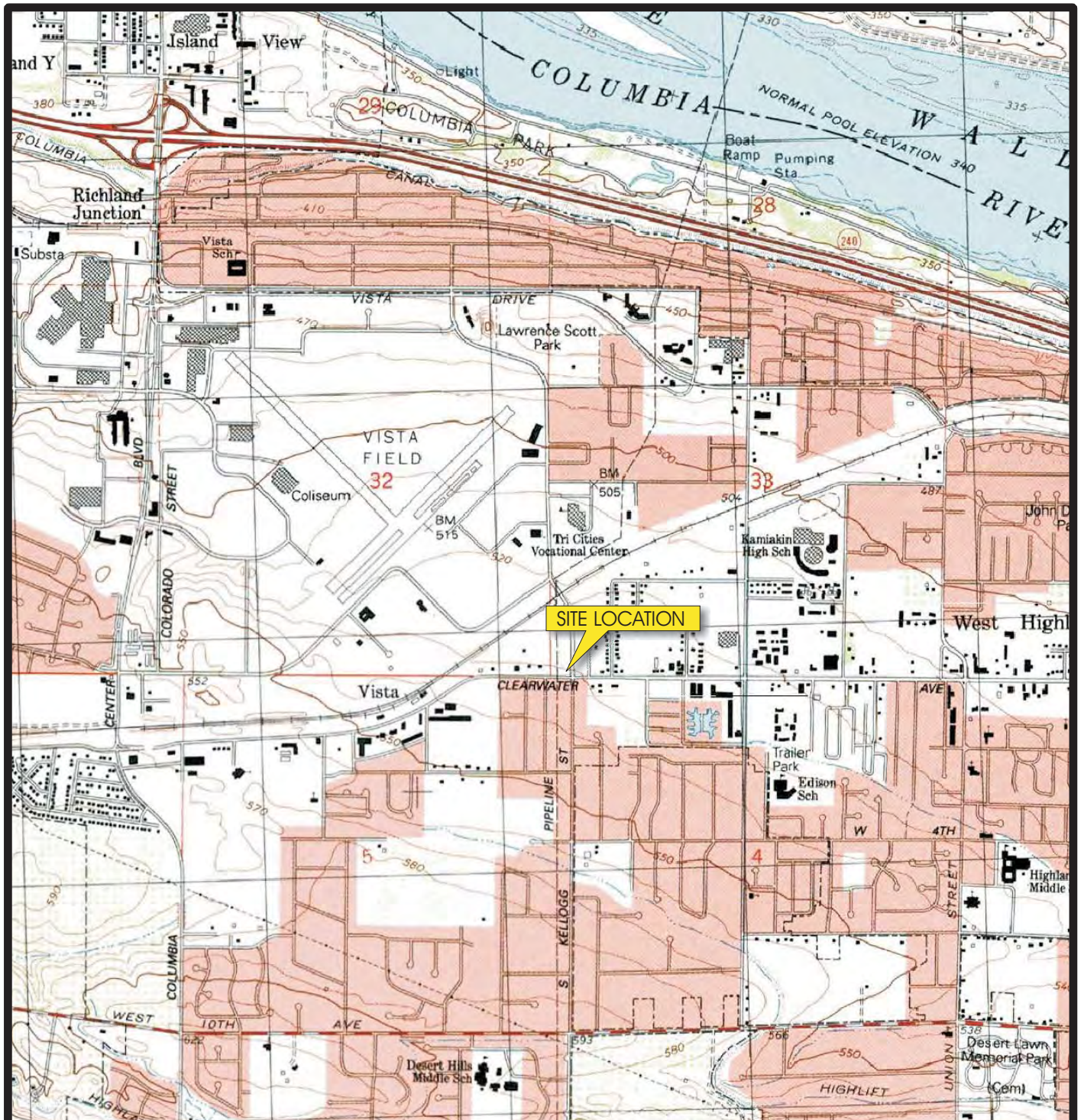
3.1.6 Vapor Extraction Program Results

The vapor extraction remediation program conducted at the two petroleum hydrocarbon release locations appears to have been very effective in removing petroleum hydrocarbons from the subsurface soils. The ending vapor concentrations within each well at the site in August-September 2021 have been reduced so low (less than 1.5 pounds removed per hour of operation) that additional vapor extraction is likely not warranted, technically viable, or cost effective at this time. As such, Circle K is requesting WDOE to evaluate this case for no further action/case closure. A formal case closure request will be submitted to WDOE in a separate document.

4.0 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



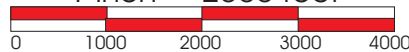
Source: MapTech Terrain Navigator Kennebec Quadrangle, 7.5 Minute Topographic Series, 1992

QUADRANGLE LOCATION



Approximate Scale
1:24,000

1 inch = 2000 feet



Contour Interval = 10 feet



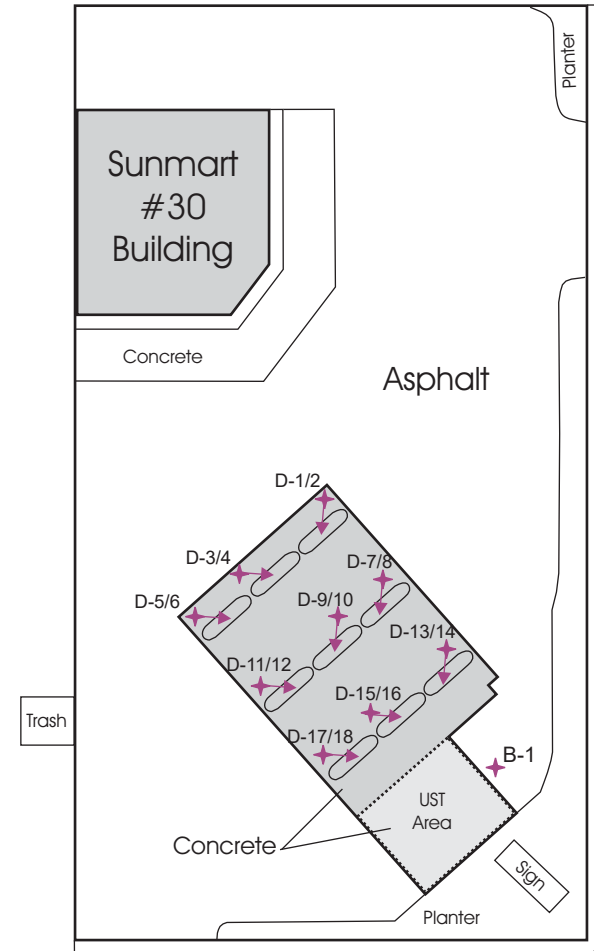
Circle K Store #2706049 **SITE**
6006 West Clearwater Ave. **LOCATION**
Kennebec, WA **MAP**

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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 Kennebec\Graphics\SLM.cdr

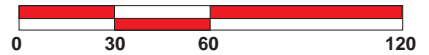


Kellogg Street



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

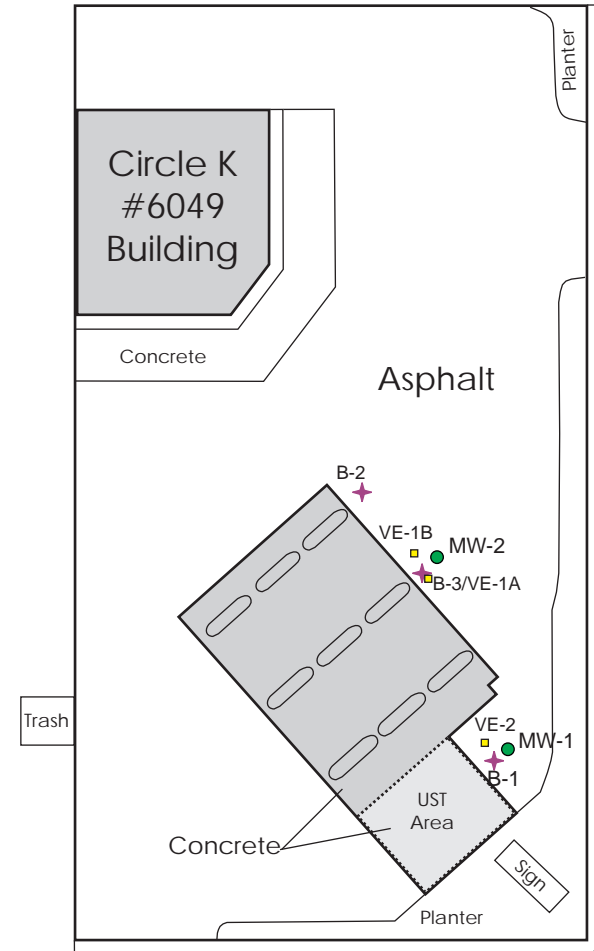
SITE PLAN

September 2012

Project #201-00001-30

Figure
2

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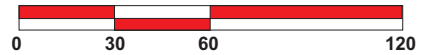





Kellogg Street

Clearwater Avenue



Approximate Scale
1 inch = 60 feet



Legend	
	MW-1 Approximate Location of Groundwater Monitoring Well
	B-1 Approximate Location of Soil Boring & ID
	VE-2 Approximate Location of Vapor Extraction Well



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

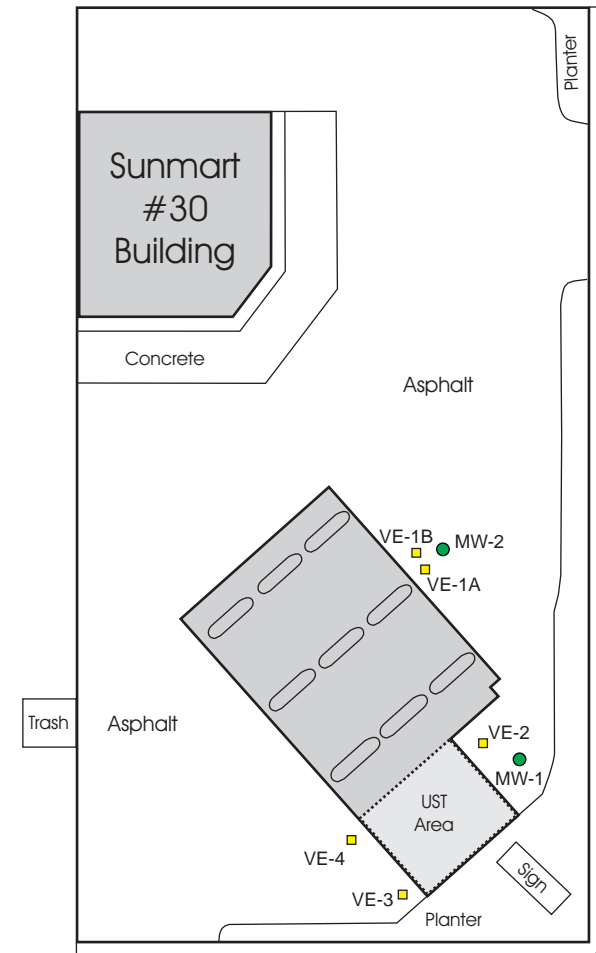
**SITE PLAN
ADDITIONAL
BORINGS
AND WELLS**

May 2014

Project #202-06049-02

Figure
3

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Kennewick/Graphics/SitePlan.cdr

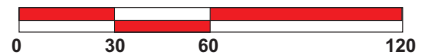


Kellogg Street

Clearwater Avenue



Approximate Scale
1 inch = 60 feet



Legend

- MW-1 Approximate Location of Groundwater Monitoring Well
- VE-2 Approximate Location of Vapor Extraction Well



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

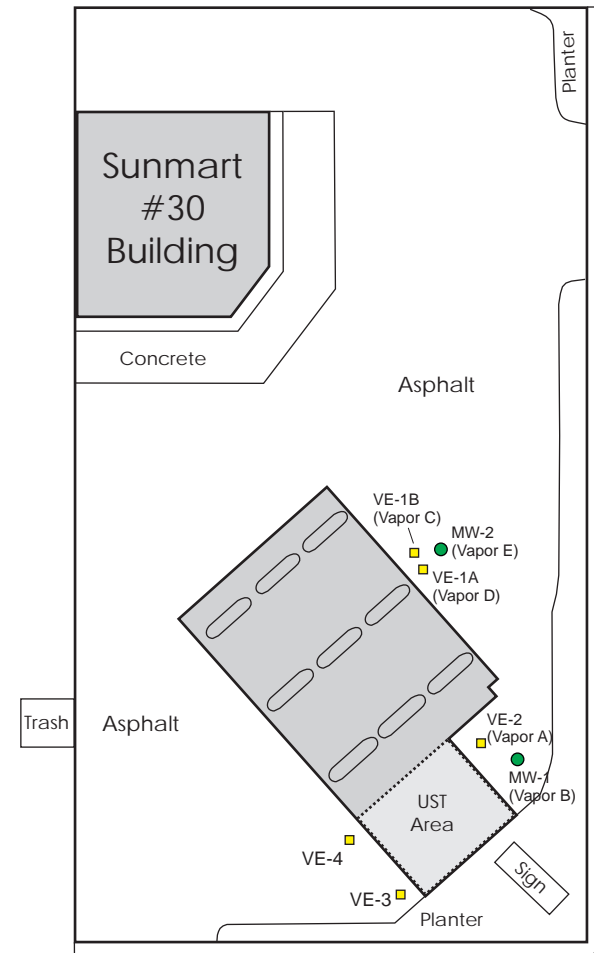
**SITE
PLAN**

2016

Project #202-06049-02

Figure
4

P:\Technical\202CKWashington\202-06049-02\
Kennewick\Graphics\SitePlan.cdr

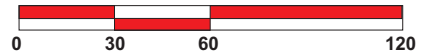


Kellogg Street

Clearwater Avenue



Approximate Scale
1 inch = 60 feet



Legend

- MW-1 Approximate Location of Groundwater Monitoring Well
- VE-2 Approximate Location of Vapor Extraction Well



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

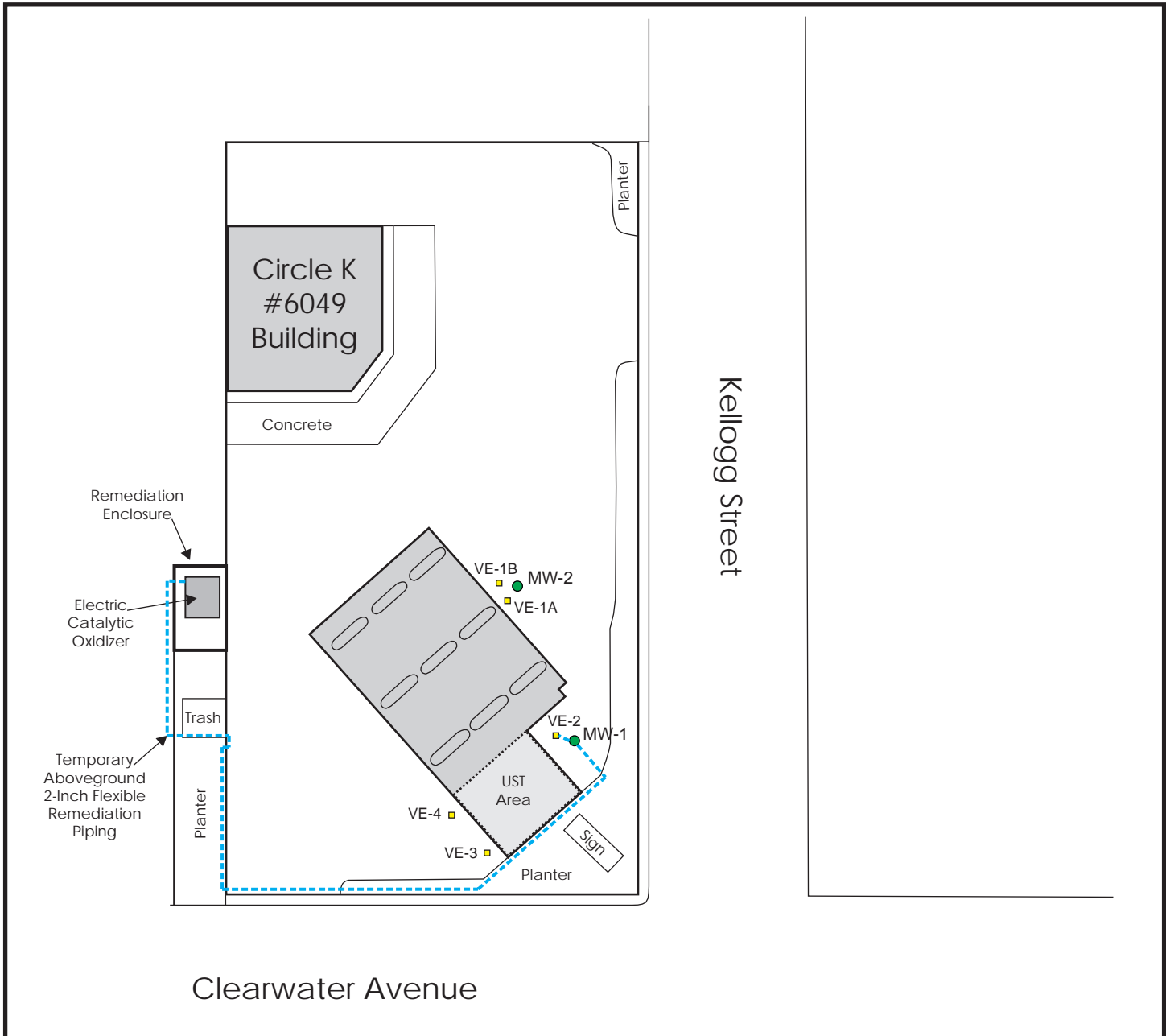
**REMEDIA
WELL SAMPLE
LOCATIONS
Oct 2016**

2016

Project #202-06049-03

Figure
5

P:\Technical\202CKWashington\202-06049



Clearwater Avenue

Kellogg Street



Approximate Scale
1 inch = 60 feet



Legend

- MW-1 Approximate Location of Groundwater Monitoring Well
- VE-2 Approximate Location of Vapor Extraction Well



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

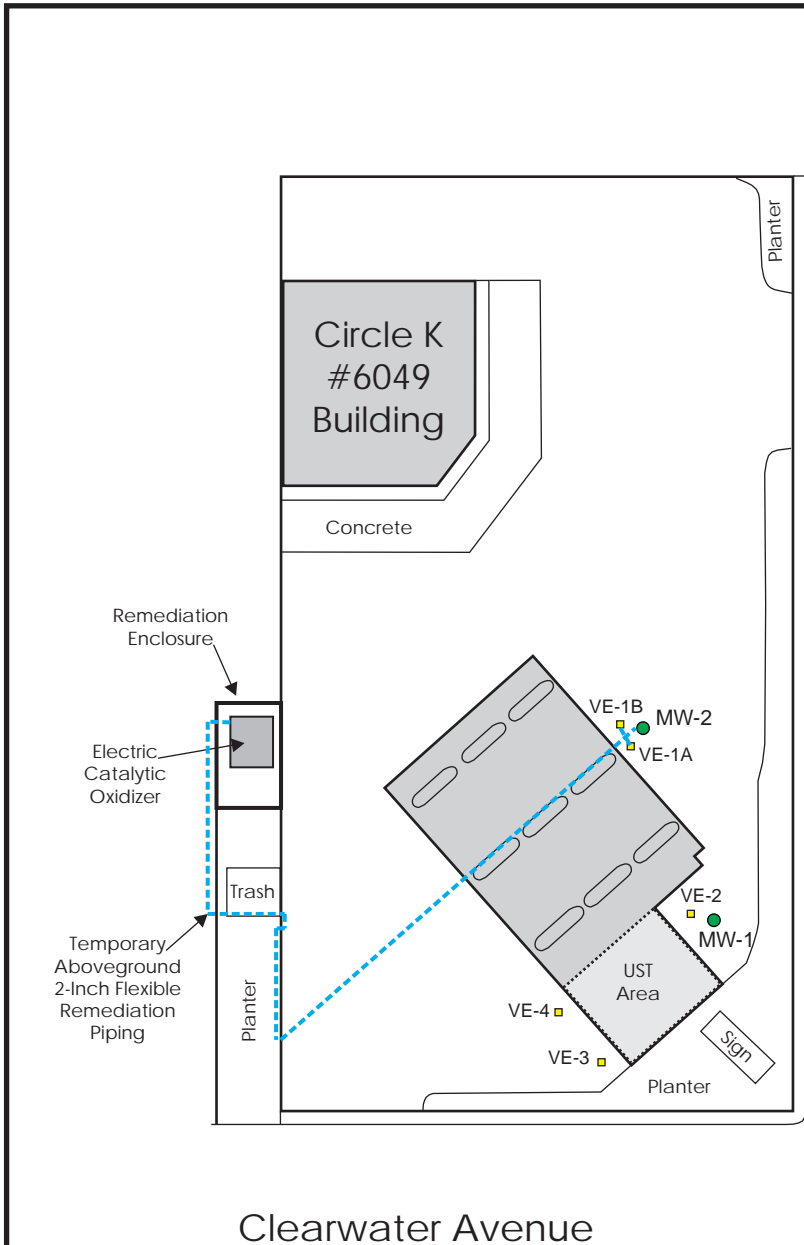
**ABOVEGROUND
REMEDIAION
PIPING - 2017**

2017

Project #202-06049-03

Figure
6

P:\Technical\202CKWashington\202-6049

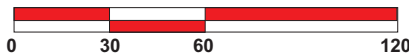


Kellogg Street



Clearwater Avenue

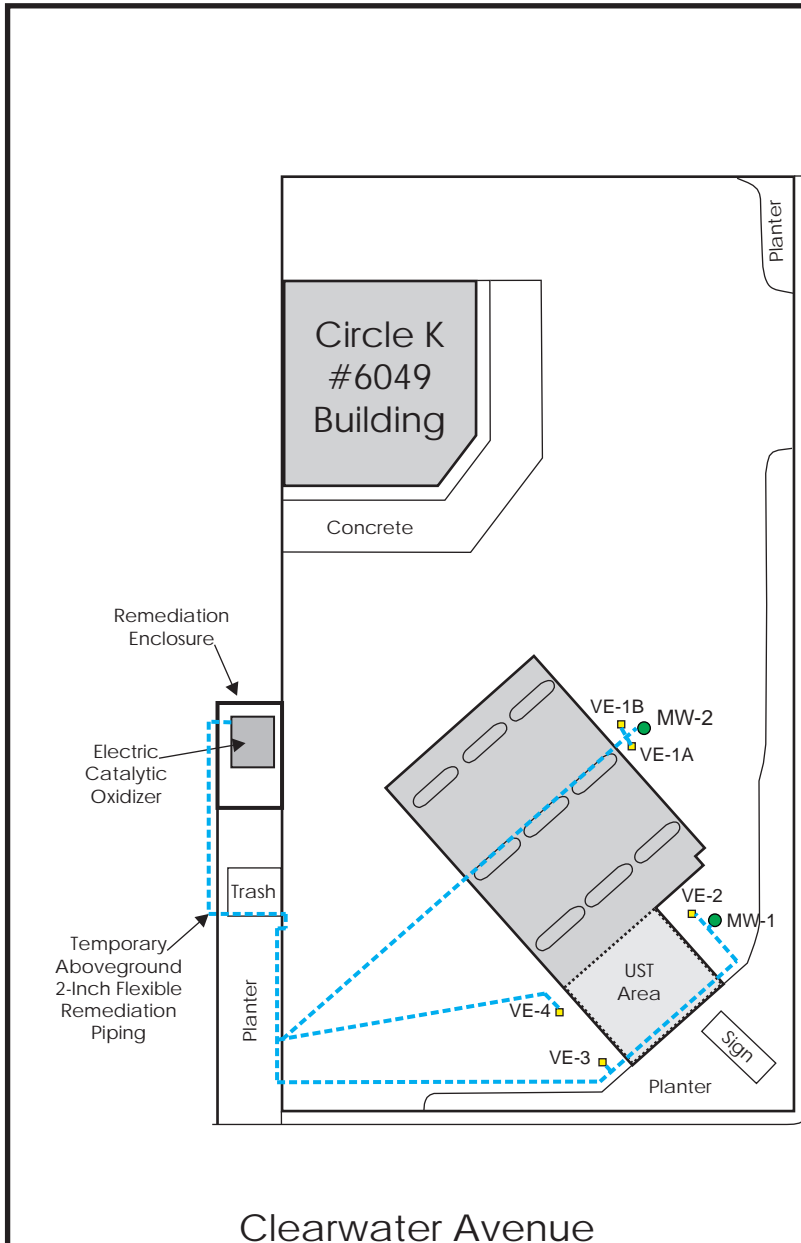


Approximate Scale
1 inch = 60 feet



Legend	
● MW-1	Approximate Location of Groundwater Monitoring Well
■ VE-2	Approximate Location of Vapor Extraction Well

 	
Circle K Store #2706049 (Former Sunmart #30) 6006 West Clearwater Avenue Kennewick, Washington	
ABOVEGROUND REMEDIAION PIPING - 2019	
Oct 2019	Project #202-06049-03
P:\Technical\202CKWashington\202-06049	
Figure 7	

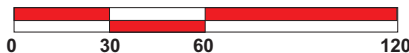


Kellogg Street

Clearwater Avenue



Approximate Scale
1 inch = 60 feet



Legend	
● MW-1	Approximate Location of Groundwater Monitoring Well
■ VE-2	Approximate Location of Vapor Extraction Well

Circle K Store #2706049 (Former Sunmart #30) 6006 West Clearwater Avenue Kennewick, Washington	
ABOVEGROUND REMEDIAION PIPING - 2021	
2021	Project #202-06049-04
<small>P:\Technical\202CKWashington\202-06049</small>	
Figure 8	

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 N-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

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
MTCA Cleanup Standards		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
MW-2	9/24/2019	526	---	NA	NA
Elevation of well is based on apprimated elevation of site NOTES:					

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												Other VOCs (ug/L)
			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)	
MW-1	12/5/2013	110	<1.0	<1.0	<1.0	3.0	3.4	<1.0	<0.010	<1.0	<1.0	<1.0	5.5	2.6	n-Butylbenzene: 2.3
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
MTCA Cleanup Standards		800	5	1,000	700	1,000	20	0.01	None	160	None	None	None	None	VARIOUS

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

TABLE 4
VAPOR EXTRACTION SYSTEM DATA
 Circle K Store #2706049
 6006 West Clearwater Avenue
 Kennewick, Washington

SAMPLE NAME	DATE	POSSIBLE PERIOD HOURS	PERIOD ON-LINE %	CUMULATIVE ON-LINE %	HOUR CLOCK READING	PERIOD UNIT HOURS	CUMULATIVE UNIT HOURS	EXTRACTION RATE (CFM)	EXTRACTION VFH (Mg/M ³)	EXTRACTION VFH (ppmV)	VFH EXTRACTION MASS (lbs)	VFH ACCUMULATED MASS (lbs)	VFH ACCUMULATED (GALLONS)	EFFLUENT DISCHARGE VFH (Mg/M ³)	EFFLUENT DISCHARGE VFH (PPMV)	Destruction Efficiency (%)
	10/24/2016	1.0	0%	100%	6,647.5	1.0	1.0	15	0.00	0.00	0.00	0.00	0.00	<0.00	<0.00	>0.0
Vapor A	10/25/2016	24.0	72%	77%	6,664.9	17.4	18.4	15	8,496.71	2,063	4.15	4.15	0.71	<9.64	<2.34	>99.9
Vapor B	10/26/2016	24.0	9%	43%	6,667.0	2.1	20.5	15	420.10	102	0.53	4.68	0.80	<13.10	<3.18	>96.9
Vapor C	10/26/2016	1.0	100%	45%	6,668.0	1.0	21.5	15	440.69	107	0.02	4.70	0.80	<15.90	<3.86	>96.4
Vapor D	10/26/2016	1.0	100%	47%	6,669.0	1.0	22.5	15	2,759.47	670	0.09	4.79	0.82	<17.83	<4.33	>99.4
Vapor E	10/26/2016	10.0	100%	68%	6,679.0	10.0	32.5	15	453.05	110	0.90	5.70	0.97	<41.39	<10.05	>90.9
Break																
MW-1	4/27/2017	1.0	100%	0%	6,670.0	1.0	1.0	91	280.07	68	0.07	5.77	0.99	<0.00	<0.00	>100.0
MW-1	6/5/2017	936.0	19%	19%	6,850.0	180.0	181.0	93	222.41	54	15.59	21.35	3.65	<32.62	<7.92	>99.6
MW-1	6/20/2017	360.0	100%	42%	7,209.5	359.5	540.5	105	448.93	109	44.75	66.11	11.30	<0.00	<0.00	>100.0
VE-2	6/20/2017	2.0	105%	42%	7,211.6	2.1	542.6	100	1,037.89	252	0.60	66.71	11.40	<15.32	<3.72	>98.5
VE-2	7/10/2017	480.0	101%	58%	7,694.5	482.9	1,025.5	100	172.98	42	109.52	176.23	30.12	<9.97	<2.42	>94.2
VE-2	8/2/2017	552.0	100%	68%	8,244.0	549.5	1,575.0	51	27.80	6.75	15.60	191.83	32.79	<10.46	<2.54	>62.4
VE-2	8/26/2017	576.0	99%	74%	8,814.7	570.7	2,145.7	50	0.00		1.50	193.33	33.05	<0.00		
Break																
	8/12/2019	1.0	0%	0%	8,814.7	0.0	1.0	103	0.00	0.00	0.00	193.33	33.05	<0.00	<0.00	>0.0
Vapor E	8/15/2019	72.0	85%	86%	8,875.8	61.1	62.1	120	3.29	0.80	0.04	193.38	33.06	<4.08	<0.99	->23.8
Vapor D	8/22/2019	168.0	24%	42%	8,915.5	39.7	101.8	36	992.59	241.00	5.78	199.15	34.04	<2.10	<0.51	>99.8
Break																
	8/8/2021	1.0	100%	0%	8,915.6	1.0	1.0	202	0.00	0.00	0.22	199.37	34.08	<0.00	<0.00	
MW-2	8/11/2021	72.0	96%	98%	8,985.0	69.4	70.4	199	0.00	0.00	0.00	199.37	34.08	<9.14	<2.22	
VE-1B	8/15/2021	96.0	102%	100%	9,083.2	98.2	168.6	195	36.66	8.90	1.33	200.70	34.31	<0.00	<0.00	>100.0
VE-1A	8/20/2021	120.0	53%	81%	9,146.8	63.6	232.2	195	109.56	26.60	3.40	204.10	34.89	<0.00	<0.00	>100.0
VE-2	8/23/2021	72.0	108%	86%	9,224.4	77.6	309.8	188	20.06	4.87	3.61	207.71	35.51	<0.00	<0.00	>100.0
VE-4	8/26/2021	72.0	96%	88%	9,293.3	68.9	378.7	190	8.40	2.04	0.69	208.40	35.62	<0.00	<0.00	>100.0
VE-3	8/30/2021	96.0	104%	91%	9,393.0	99.7	478.4	195	6.84	1.66	0.55	208.95	35.72	<3.95	<0.96	>42.2
MW-1	9/2/2021	72.0	96%	91%	9,462.4	69.4	547.8	187	25.29	6.14	0.80	209.74	35.85	<4.32	<1.05	>82.9

Notes:
 CFM - Cubic Feet per Minute
 VFH - Volatile Fuel Hydrocarbons
 ppmV - parts per million by volume
 ug/l from vapor lab reports have been converted into parts per million volume (ppmv)

0.00

TABLE 5
SUMMARY OF VAPOR LABORATORY ANALYTICAL RESULTS

Circle K #2706049

6006 West Clearwater Avenue
Kennewick, Washington

SAMPLE ID	DATE	NWTPH-GX	NWTPH-GX	EPA 8260/8021B						
		VFH (ug/l)	VFH-Equivalent (ppmv)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/l)	Total Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Napthalene (ug/L)
Mako ECAT Oxidizer										
Vapor A-Influent	10/25/16	8,440	2,063	<0.10	0.121	0.260	110.6	35.60	23.90	<0.10
Vapor B-Influent	10/26/16	417	102	<0.10	0.0618	0.129	33.5	23.40	11.90	0.0343
Vapor B-Effluent		13	3.2	<0.10	0.0522	0.0264	0.478	0.376	0.189	<0.10
Vapor C-Influent	10/26/16	436	107	<0.10	0.294	0.132	24.7	10.90	5.99	0.0455
Vapor C-Effluent		15.8	3.9	<0.10	0.0652	0.0317	0.669	0.591	0.263	<0.10
Vapor D-Influent	10/26/16	2,740	670	<0.10	0.900	3.20	511	22.10	16.80	0.0336
Vapor D-Effluent		17.7	4.3	<0.10	0.0694	0.0316	0.954	0.774	0.338	<0.10
Vapor E-Influent	10/26/16	452	110	<0.10	0.0759	0.263	74.3	29.00	15.40	0.0355
Vapor E-Effluent		41.1	10	<0.10	0.0573	0.0525	7.690	1.210	0.667	<0.10
Influent (MW-1)	4/27/17	279	68	<0.10	<0.10	<0.10	20.99	8.10	3.76	<0.10
t-Dilution Influent (MV)		36	9	<0.10	<0.10	<0.10	3.30	1.04	0.45	<0.10
Effluent (MW-1)		<5.0	<1.2	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10
Influent (MW-1)	6/5/17	221	54	<0.10	<0.10	<0.10	14.70	4.31	3.81	<0.10
t-Dilution Influent (MV)		32	8	<0.10	<0.10	<0.10	2.166	0.576	0.415	<0.10
Effluent (MW-1)		<5.0	<1.2	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10
Influent (MW-1)	6/20/17	447	109	<0.10	0.0375	0.0600	30.30	24.70	11.10	0.103
t-Dilution Influent (MV)		234	57	<0.10	0.0380	0.0434	17.01	12.00	5.70	0.0502
Effluent (MW-1)		<5.0	<1.2	<0.10	0.0395	<0.10	0.0973	0.114	0.0938	<0.10
Influent (VE-2)		1,030	252	<0.10	0.0434	0.1250	76.60	43.60	24.90	0.0881
t-Dilution Influent (VE)	8/2/17	489	120	<0.10	0.0402	0.0616	34.10	22.60	11.90	0.0684
Effluent (VE-2)		15.2	3.7	<0.10	0.0407	0.0141	0.802	0.97	0.378	<0.10
Influent	7/10/17	173	42	<0.10	<0.10	0.0348	7.97	7.82	3.91	0.0591
Post-Dilution Influent		146	36	<0.10	<0.10	0.0301	6.40	4.44	3.28	0.101
Effluent		9.89	2.4	<0.10	<0.10	0.0389	0.341	0.320	0.127	<0.10
Influent	8/2/17	28	7	<0.10	0.0861	0.0363	0.955	0.678	0.380	<0.10
Effluent		10.4	2.5	<0.10	0.101	0.0323	0.266	0.296	0.166	<0.10
Influent	8/26/17	110	27	<0.00747	0.0320	0.0372	3.64	2.12	2.17	0.027
Vapor E -Influent	8/15/19	3.3	0.8	<0.10	0.0316	<0.10	0.3145	0.109	0.0617	<0.10
Vapor E-Effluent		4.06	1.0	<0.10	0.11	<0.10	<0.20	<0.10	<0.10	<0.10

TABLE 5
SUMMARY OF VAPOR LABORATORY ANALYTICAL RESULTS

Circle K #2706049

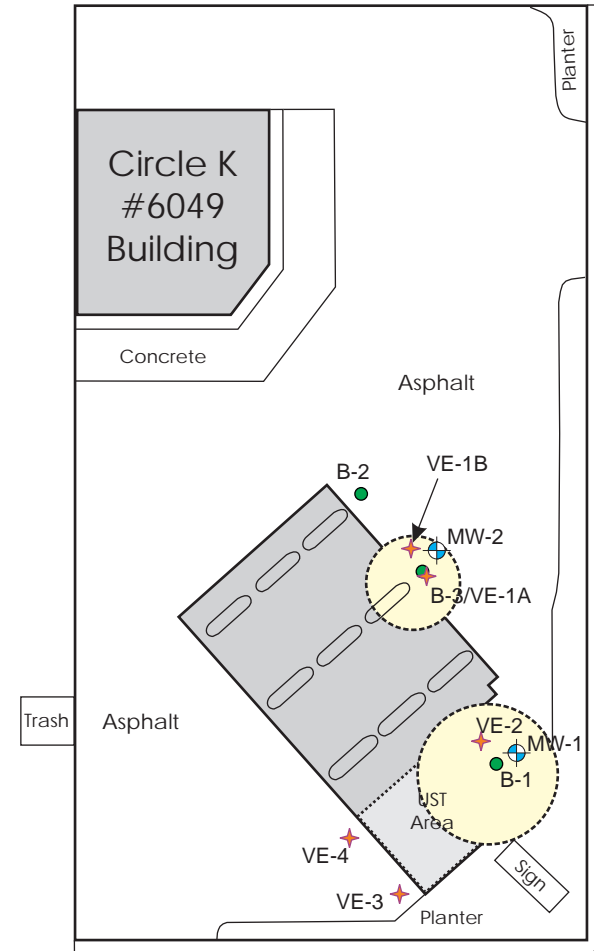
6006 West Clearwater Avenue
 Kennewick, Washington

SAMPLE ID	DATE	NWTPH-GX	NWTPH-GX	EPA 8260/8021B						
		VFH (ug/l)	VFH-Equivalent (ppmv)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/l)	Total Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Napthalene (ug/L)
Vapor D-Influent	8/22/19	987.0	241.3	<0.10	0.0657	<0.10	69.90	38.10	22.50	0.0684
Vapor D-Effluent		2.09	0.5	<0.10	0.0588	<0.10	<0.20	0.0413	<0.10	<0.10
Influent (MW-2)	8/11/21	<5.0	<1.2	<0.044	0.157	<0.40	0.1933	<0.05	0.0259	<0.125
Effluent (MW-2)		9.08	2.2	<0.044	<0.422	0.0763	0.378	0.0741	<0.025	0.273
Influent (VE-1B)	8/15/21	36.4	8.9	<0.044	<0.075	<0.04	1.662	0.66	0.544	<0.125
Effluent (VE-1B)		<5.0	<1.2	<0.044	0.0763	<0.04	<0.15	<0.05	<0.025	0.166
Influent (VE-1A)	8/20/21	107	26.2	<0.044	<0.075	<0.04	4.28	4.78	2.99	<0.125
Effluent (VE-1A)		<5.0	<1.2	<0.044	<0.075	<0.04	<0.15	<0.05	<0.025	<0.125
Influent (VE-2)	8/23/21	19.9	4.9	<0.044	<0.075	<0.04	0.888	0.734	0.46	<0.125
Effluent (VE-2)		<5.0	<1.2	<0.044	<0.075	<0.04	<0.15	0.063	0.0394	<0.125
Influent (VE-4)	8/26/21	8	2.0	<0.044	<0.075	<0.04	<0.15	<0.13	<0.101	<0.125
Effluent (VE-4)		<5.0	<1.2	<0.044	<0.075	<0.04	<0.15	0.0636	0.0381	<0.125

APPENDICES

APPENDIX A

**DIAGRAM SHOWING APPROXIMATE
LATERAL EXTENT OF HYDROCARBONS
IN SOIL**

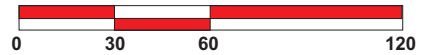


Kellogg Street

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

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

APPENDIX B
AIR QUALITY PERMIT



BENTON CLEAN AIR AGENCY

IN THE MATTER OF THE COMPLIANCE BY
Circle K Stores, Inc. with Chapter 70.94 RCW and
the Rules and Regulations of the Benton Clean Air
Agency

ORDER of APPROVAL No. 2016-0014 Rel

TO: Circle K Stores, Inc.
255 East Rincon #100
Corona, CA 92879

Issue Date: 27-July 2016

Permittee: The permittee is Circle K Stores, Inc. The permittee is required to comply with the provisions contained within this Order.

Responsible Official: Rex Abacan, Circle K Stores, Inc.
Phone: 951-270-5104; Fax 951-270-5116

Source Location: Circle K Stores, Inc. #2706049 is located at 6006 W. Clearwater Ave., Kennewick, Benton County, Washington.

1. JURISDICTION AND LEGAL AUTHORITY: This order is issued under the authority of Revised Code of Washington (RCW) 70.94.141(3) and in accordance with RCW 70.94.152, Washington Administrative Code (WAC) 173-400-110, WAC 173-460, and Benton Clean Air Agency (BCAA) Regulation 1.

2. PROJECT DESCRIPTION

2.1. The facility proposes to install a MAKO 250 MAKOCAT (MV) Electric Catalytic Oxidizer soil vapor extraction system.

2.2. The MAKO 250 MAKOCAT (MV) Electric Catalytic Oxidizer soil vapor extraction system is being relocated from Circle K Stores, Inc. #2706034 from Order of Approval No. 2014-0003.

2.3. The equipment covered under this Order includes:

Unit #	Equipment Description	# of Units	Control Equipment	# of Control Units
1	Soil Vapor Extraction System	1	Electric Catalytic Oxidizer	1

3. FINDINGS:

3.1. The equipment listed in paragraph 2.1 are emission units defined as a new source of air contaminants and required to undergo New Source Review in accordance with WAC 173-400-110 or WAC 173-460.

3.2. Criteria Air Pollutant (CAP) Emissions: Criteria air pollutant emissions from the facility include Volatile Organic Compounds (VOC's).

3.3. Toxic air pollutant (TAP) emissions from the facility include benzene, toluene, and other constituents of gasoline.

3.4. APPLICABLE LAWS AND REGULATIONS

3.4.1 Unless otherwise stated, the applicable dates for referenced Code of Federal Regulations (CFRs), RCWs, and WACs are those applicable at the time of issuance of this Order.

3.4.2 The facility shall comply with RCW 70.94, Washington (State) Clean Air Act and RCW 43.21C, (Washington) State Environmental Policy Act

3.4.3 The facility shall comply with WAC 173-400 General Regulations for Air Pollution Sources; WAC 197-11.

3.4.4 The facility shall comply with BCAA Regulation 1.

3.5. AMBIENT AIR QUALITY

3.5.1 The facility is within an area that is unclassifiable with respect to the national ambient air quality standards for NO_x, CO, SO₂, and PM₁₀, PM_{2.5} and ozone.

3.5.2 Impacts to ambient air quality have been modeled using an EPA-approved screening model. The facility will not cause or contribute to a violation of the National or State ambient air quality standards

3.5.3 The proposed project, if constructed and operated as herein required, will not result in the exceedance of any ambient air quality standards

3.6. BEST AVAILABLE CONTROL TECHNOLOGY (BACT) AND BEST AVAILABLE CONTROL TECHNOLOGY FOR TOXICS (T-BACT)

3.6.1 As required by WAC 173-400-113(2) the proposed emission unit(s) shall use BACT to control emissions of criteria pollutants and toxic air pollutants, respectively. The BCAA considers the following to be BACT:

3.6.1.1 BACT for a Soil Vapor Extraction System is the use of an Electric Catalytic Oxidizer.

4. FINAL DETERMINATION: A final determination has been made, based upon review of the Notice of Construction (NOC) and Application for Approval, submitted 21-July 2016.

4.1. The proposed project, if constructed and operated as described in this order, will be in accordance with applicable rules and regulations set for the Chapter 173-400 WAC and 173-491 WAC, and the operation of this facility at the proposed location will not result in ambient air quality standards being exceeded.

4.2. The proposed project, if constructed and operated as described in this order, will provide all known, available, and reasonable methods of emission control.

4.3. It is Ordered that the proposed project as described in the NOC Application, this Order, and more specifically detailed in plans, specifications, and other information submitted to the BCAA, is approved for construction, installation, and operation, provided that the conditions outlined in this Order are met.

4.4. This Order shall become effective upon receipt by the permittee or by the effective date, unless appealed within thirty (30) days of receipt in accordance with Condition 6.8.

5. SPECIFIC APPROVAL CONDITIONS ⁽¹⁾

5.1. EMISSION LIMITS

The following emission limits shall apply to the specific emission unit/facility at all times:

	Pollutant	Emission Limit (lb/yr)
5.1.1	Volatile Organic Compounds ⁽¹⁾	500
5.1.2	Toxic Air Pollutants ⁽¹⁾	15
5.1.3	Benzene ⁽¹⁾	2.0
Visible emissions from the catalytic oxidizer shall not exceed zero percent opacity for more than 3 minutes in any one hour period as determined in accordance with EPA Reference Method 9.		
⁽¹⁾ Measured as rolling 12 month sum		

5.2. OPERATING REQUIREMENTS

- 5.2.1 Operations that cause or contribute to odors that unreasonably interfere with the use and enjoyment of any other property shall use recognized good practice to reduce odors to a reasonable minimum.
- 5.2.2 The remediation system shall be operated such that the rate of air extraction exceeds the rate of air injection at all times.
- 5.2.3 The vapor extraction system shall not be operated unless all extracted gas is treated by the emissions control system (electric catalytic oxidizer); and the emissions control system is operating properly.
- 5.2.4 The catalytic oxidizer temperature shall be maintained at a minimum temperature of 650 degrees Fahrenheit.
- 5.2.5 The catalytic oxidizer shall reduce total volatile organic compounds vented to it by at least 90%.
- 5.2.6 Exhaust from the catalytic oxidizer shall be discharged vertically. Any device that obstructs vertical discharge is prohibited.
- 5.2.7 The equipment specified in this NOC application and this Permit shall be maintained and operated in total and continuous conformity with the conditions identified in this Permit and the manufacturer's specifications.
- 5.2.8 Benton Clean Air Agency reserves the right to take any and all appropriate actions to insure the conditions of this Permit are met, including ordering the facility to cease operations until corrective action can be completed.

5.3. COMPLIANCE DEMONSTRATION

- 5.3.1 Compliance with this order shall be demonstrated by the recordkeeping requirements of Condition 5.5.

5.4. TESTING

- 5.4.1 Emissions testing shall be required, at the discretion of the BCAA, at other times should the potential for exceeding the emission limits in Condition 5.1 be indicated
- 5.4.2 When complaint investigation, visible emission observations, or other information obtained by BCAA indicates the need to measure emissions, BCAA may require the permittee to conduct source testing.

5.5. MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

5.5.1 Reporting Requirements.

- 5.5.1.1 Initial reporting requirements. The facility shall notify BCAA in writing of startup within ten (10) days of startup.
- 5.5.1.2 Excess emissions that represent a potential threat to human health or safety, or which the owner or operator wishes to be considered as unavoidable, shall be reported to BCAA as soon as possible, but no later than 48 hours after discovery.
- 5.5.1.3 Deviations from permit conditions shall be reported no later than 30 days after the end of the month during which the deviation is discovered.
- 5.5.1.4 All air quality related complaints, including odor complaints, received by the permittee shall be reported to BCAA within three days of receipt.
- 5.5.1.5 The vapor extraction rate and the total amount of vapor extracted shall be reported for each calendar month of the year to the BCAA by March 15th for the previous calendar year.
- 5.5.1.6 The results of all source emission testing shall be submitted to BCAA within 45 days of test completion.
- 5.5.1.7 BCAA shall be notified prior to removing or discontinuing the use of emission control technology.
- 5.5.1.8 The facility shall maintain records of initial and subsequent testing.

5.5.2 Recordkeeping requirements:

- 5.5.2.1 The vapor extraction rate and the total amount of vapor extracted shall be reported for each calendar month of the year.
- 5.5.2.2 Records of emission unit operation, testing, and maintenance.
- 5.5.2.3 All records must be kept for five (5) years.

5.6. OPERATIONS AND MAINTENANCE MANUAL

- 5.6.1 An operation and maintenance (O&M) procedures for the equipment covered under this order shall be maintained on site.
- 5.6.2 Regular maintenance records shall be kept at the facility. These operating and maintenance records shall be available for inspection by BCAA.

6. GENERAL APPROVAL CONDITIONS

- 6.1. This permittee will be registered with the BCAA as an air pollution source and must comply with the source registration program according to BCAA Regulation 1.
- 6.2. Access to the facility by BCAA staff shall be allowed upon request for conducting compliance inspections. Denial of entry to BCAA staff by the permittee is grounds for revocation of this Order.
- 6.3. Records of all data shall be kept on-site in a readily retrievable manner for a period of five (5) years and be made available to authorized representatives of the BCAA, the Department of Ecology, or the EPA, within 48 hours of request.
- 6.4. This Order shall be non-transferable and shall only apply to the facility and equipment specified.

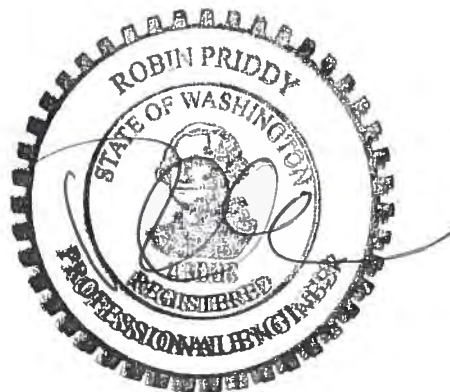
- 6.5. This Order shall become invalid if construction is not commenced within eighteen (18) months after receipt of final approval or if construction is discontinued for a period of eighteen (18) months or more. The BCAA may extend this period upon a satisfactory demonstration that an extension is justified.
- 6.6. If the owner or operator at this site changes, notification shall be given to the BCAA in writing within thirty (30) days of the change.
- 6.7. Air quality violations, including failure to meet the conditions of this permit, shall be subject to any of the remedies provided in RCW 70.94. Such remedies include notice of violation, order, and civil penalty of up to \$10,000 per day per violation
- 6.8. Orders, permits, determinations, and notices may be appealed within 30 days of receipt or as specified in RCW 43.21B, to the Washington State Pollution Control Hearings Board (PCHB), PO Box 40903, Olympia, WA 98504-0903. Copies of correspondence to the PCHB shall also be sent to the Benton Clean Air Agency, 526 South Steptoe St., Kennewick, WA 99336.

PREPARED BY:


Rob Rodger, AQ Engineer 7-27-16
Date

APPROVED BY:


Robin Priddy, PE Control Officer 7/27/16
Date



APPENDIX C

2016 OPERATION & MAINTENANCE SHEETS

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION											
CLIENT: CIRCLE K STORES INC					DATE: 10/24-25/2016 Page: 1 of 1						
PROJECT #: 202-6049-05					PERSONNEL: Dan Blaes						
SITE: 6006 West Clearwater					TIME ON-SITE: 4:00 PM						
LOCATION: Kennewick, Washington					TIME OFF-SITE: 8:00 PM						
EQUIPMENT DETAIL											
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM						
VE Operational? Start Up 10-24-16					AS Operational? None						
Fault Indicator: None					Fault Indicator:						
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final			
VE Hour Meter:		6647.5		6662		AS Hour Meter:					
Time:		6:00 PM		8:15 AM		Time:					
Temp Control (F°):		804		747		System Pressure: (PSI)					
Dilution Temp (F°):		717		726							
High Limit Temp (F°):		717		726		AS Well ID		Pressure (psi)			
Total Flow-Manifold (cfm):						AS Well ID		Flow (cfm)			
						Initial		Final			
Total Flow-Recorder:		15		15		AS-1					
Total Vacuum: ("Hg /"H ₂ O)		2" Hg		2" Hg		AS-2					
Recirc Valve (% open):		50		50		AS-3					
Dilution Valve (% open):		0		0		AS-4					
						AS-5					
						AS-6					
						AS-7					
						AS-8					
Open to well Vapor A from 6647.5 to 6662.0						AS-9					
Vapor Sampled Vapor A at 6662.0 on 10-25-16						AS-10					
						AS-11					
						AS-12					
OXIDIZER VAPOR MONITORING					AS-13						
Vapor Collected for Lab?		Yes				AS-14					
Effluent PID (ppm):						AS-15					
Post-Dilution INF PID (ppm):						AS-16					
Influent PID (ppm):						AS-17					
PID Model:				Cal Gas:		AS-18					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19			
VE Well ID		Initial Final		Initial Final		Initial Final		AS-20			
Vapor A										CONTROLLER SET POINTS	
Vapor B										Gas Train/Process Temp (F°):	
Vapor C										Auto Dilution (F°):	
Vapor D										High Temp (F°):	
Vapor E										UTILITY READING	
										Natural Gas (ft ³):	
										Propane (% full):	
										Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION										
CLIENT: CIRCLE K STORES INC					DATE: 10/25-26/2016 Page: 1 of 1					
PROJECT #: 202-6049-05					PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater					TIME ON-SITE: 7:00 AM					
LOCATION: Kennewick, Washington					TIME OFF-SITE: 9:00 AM					
EQUIPMENT DETAIL										
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM					
VE Operational?					AS Operational?					
Yes but stopped shortly					None					
Fault Indicator:					Fault Indicator:					
None										
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final		
VE Hour Meter:		6662		6664.9		AS Hour Meter:				
Time:					Time:					
Temp Control (F°):					System Pressure: (PSI)					
747										
Dilution Temp (F°):										
702										
High Limit Temp (F°):					AS Well ID		Pressure (psi)		Flow (cfm)	
702							Initial		Final	
Total Flow-Manifold (cfm):					AS-1		Initial		Final	
Total Flow-Recorder:					AS-1					
15					AS-2					
Total Vacuum: ("Hg /"H ₂ O)					AS-3					
2" Hg					AS-4					
Recirc Valve (% open):					AS-5					
50					AS-6					
Dilution Valve (% open):					AS-7					
0					AS-8					
					AS-9					
					AS-10					
Switched to well Vapor B after sampling well					AS-11					
Vapor A. Data represents Vapor B					AS-12					
System shutdown due to high water					AS-13					
at 6664.9 (no on site during shutdown)... found					AS-14					
on 10/26/16					AS-15					
Sampled Vapor B well on 10/26/16					AS-16					
					AS-17					
					AS-18					
OXIDIZER VAPOR MONITORING										
Vapor Collected for Lab?					AS-19					
Yes					AS-20					
Effluent PID (ppm):										
Post-Dilution INF PID (ppm):										
Influent PID (ppm):										
PID Model:					Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19		
AS-19		Initial		Final		Initial		Final		
		Initial		Final		Initial		Final		
Vapor A					CONTROLLER SET POINTS					
Vapor B					Gas Train/Process Temp (F°):					
Vapor C					Auto Dilution (F°):					
Vapor D					High Temp (F°):					
Vapor E					UTILITY READING					
					Natural Gas (ft ³):					
					Propane (% full):					
					Electricity (kWh):					

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION										
CLIENT: CIRCLE K STORES INC					DATE: 10/26/2016		Page: 1 of 2			
PROJECT #: 202-6049-05					PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater					TIME ON-SITE: 12:00 noon					
LOCATION: Kennewick, Washington					TIME OFF-SITE: 7:00 PM					
EQUIPMENT DETAIL										
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM					
VE Operational?					Restarted		AS Operational?			None
Fault Indicator:					None		Fault Indicator:			
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Initial		Final
VE Hour Meter:		6665		6668		AS Hour Meter:				
Time:		1:00 PM		4:00 PM		Time:				
Temp Control (F°):		748		804		System Pressure: (PSI)				
Dilution Temp (F°):		717		673						
High Limit Temp (F°):		717		672		AS Well ID		Pressure (psi)		Flow (cfm)
Total Flow-Manifold (cfm):						AS Well ID		Initial		Final
Total Flow-Recorder:		15		15		AS-1				
Total Vacuum: ("Hg /"H ₂ O)		2.5" Hg		3" Hg		AS-2				
Recirc Valve (% open):		50		50		AS-3				
Dilution Valve (% open):		0		0		AS-4				
						AS-5				
Sampled Vapor B well at 6667.0 after running 2 hours					AS-6					
Switched to well Vapor C after sampling well B					AS-7					
Sampled Vapor C at 6668					AS-8					
Switched to well Vapor D after sampling well C					AS-9					
Sampled Vapor D at 6669					AS-10					
Switched to Vapor E after sampling well D					AS-11					
Sampled Vapor E at 6679					AS-12					
OXIDIZER VAPOR MONITORING										
Vapor Collected for Lab?					Yes		AS-13			
Effluent PID (ppm):							AS-14			
Post-Dilution INF PID (ppm):							AS-15			
Influent PID (ppm):							AS-16			
PID Model:				Cal Gas:		AS-17				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-18		
AS-19		Initial Final		Initial Final		Initial Final		AS-19		
Vapor A								CONTROLLER SET POINTS		
Vapor B								Gas Train/Process Temp (F°):		
Vapor C								Auto Dilution (F°):		
Vapor D								High Temp (F°):		
Vapor E								UTILITY READING		
								Natural Gas (ft ³):		
								Propane (% full):		
								Electricity (kWh):		

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 10/26/2016		Page: 2 of 2		
PROJECT #: 202-6049-05					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 12:00 noon				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 7:00 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? Restarted					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		6669		6670		AS Hour Meter:			
Time:		5:00 PM		6:00 PM		Time:			
Temp Control (F°):		825		753		System Pressure: (PSI)			
Dilution Temp (F°):		723		750					
High Limit Temp (F°):		723		750		AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Flow (cfm)	
						Initial		Final	
Total Flow-Recorder:		15		15		AS-1			
Total Vacuum: ("Hg /"H ₂ O)		3" Hg		3" Hg		AS-2			
Recirc Valve (% open):		50		50		AS-3			
Dilution Valve (% open):		0		0		AS-4			
						AS-5			
Sampled Vapor B well at 6667.0 after running 2 hours					AS-6				
Switched to well Vapor C after sampling well B					AS-7				
Sampled Vapor C at 6668					AS-8				
Switched to well Vapor D after sampling well C					AS-9				
Sampled Vapor D at 6669					AS-10				
Switched to Vapor E after sampling well D					AS-11				
Sampled Vapor E at 6679					AS-12				
OXIDIZER VAPOR MONITORING					AS-13				
Vapor Collected for Lab?		Yes			AS-14				
Effluent PID (ppm):					AS-15				
Post-Dilution INF PID (ppm):					AS-16				
Influent PID (ppm):					AS-17				
PID Model:		Cal Gas:			AS-18				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19	
AS-20		Initial Final		Initial Final		Initial Final		AS-20	
Vapor A								CONTROLLER SET POINTS	
Vapor B								Gas Train/Process Temp (F°):	
Vapor C								Auto Dilution (F°):	
Vapor D								High Temp (F°):	
Vapor E								UTILITY READING	
								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	

APPENDIX D

2016 VAPOR LABORATORY REPORTS



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049 Kennewick
Work Order Number: 1610367

October 31, 2016

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 10/25/2016 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick
Work Order: 1610367

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1610367-001	INFLUENT	10/25/2016 8:15 AM	10/25/2016 3:00 PM
1610367-002	EFFLUENT	10/25/2016 8:14 AM	10/25/2016 3:00 PM

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-001
Client Sample ID: INFLUENT

Collection Date: 10/25/2016 8:15:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 2:10:36 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 2:10:36 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Methylene chloride	0.0487	0.100	J	µg/L	1	10/27/2016 2:10:36 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 2:10:36 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Chloroform	0.0920	0.100	J	µg/L	1	10/27/2016 2:10:36 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Toluene	0.121	0.100		µg/L	1	10/27/2016 2:10:36 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Tetrachloroethene (PCE)	0.0237	0.100	J	µg/L	1	10/27/2016 2:10:36 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 2:10:36 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Ethylbenzene	0.260	0.100		µg/L	1	10/27/2016 2:10:36 PM
m,p-Xylene	66.5	0.100		µg/L	1	10/27/2016 2:10:36 PM
o-Xylene	44.1	0.100		µg/L	1	10/27/2016 2:10:36 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Isopropylbenzene	3.06	0.100		µg/L	1	10/27/2016 2:10:36 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-001
Client Sample ID: INFLUENT

Collection Date: 10/25/2016 8:15:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
n-Propylbenzene	3.25	0.100		µg/L	1	10/27/2016 2:10:36 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,3,5-Trimethylbenzene	23.9	0.100		µg/L	1	10/27/2016 2:10:36 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 2:10:36 PM
sec-Butylbenzene	1.17	0.100		µg/L	1	10/27/2016 2:10:36 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,4-Trimethylbenzene	35.6	0.100		µg/L	1	10/27/2016 2:10:36 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 2:10:36 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 2:10:36 PM
Surr: Dibromofluoromethane	99.4	61.1-128		%Rec	1	10/27/2016 2:10:36 PM
Surr: Toluene-d8	105	66-138		%Rec	1	10/27/2016 2:10:36 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	10/27/2016 2:10:36 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	8,440	500	D	µg/L	100	10/27/2016 10:45:20 AM
Surr: 4-Bromofluorobenzene	113	65-135		%Rec	1	10/27/2016 2:10:36 PM
Surr: Toluene-d8	100	65-135		%Rec	1	10/27/2016 2:10:36 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-002
Client Sample ID: EFFLUENT

Collection Date: 10/25/2016 8:14:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 9:18:08 AM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 9:18:08 AM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Methylene chloride	0.0360	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 9:18:08 AM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Chloroform	0.0792	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Benzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Toluene	0.106	0.100		µg/L	1	10/27/2016 9:18:08 AM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Tetrachloroethene (PCE)	0.0191	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 9:18:08 AM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Ethylbenzene	0.0364	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
m,p-Xylene	0.138	0.100		µg/L	1	10/27/2016 9:18:08 AM
o-Xylene	0.0505	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Styrene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Isopropylbenzene	0.0235	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Bromoform	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-002
Client Sample ID: EFFLUENT

Collection Date: 10/25/2016 8:14:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
n-Propylbenzene	0.0274	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,3,5-Trimethylbenzene	0.0343	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 9:18:08 AM
sec-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,4-Trimethylbenzene	0.0570	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 9:18:08 AM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 9:18:08 AM
Surr: Dibromofluoromethane	97.9	61.1-128		%Rec	1	10/27/2016 9:18:08 AM
Surr: Toluene-d8	104	66-138		%Rec	1	10/27/2016 9:18:08 AM
Surr: 1-Bromo-4-fluorobenzene	101	64.7-128		%Rec	1	10/27/2016 9:18:08 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	9.57	5.00		µg/L	1	10/27/2016 9:18:08 AM
Surr: 4-Bromofluorobenzene	102	65-135		%Rec	1	10/27/2016 9:18:08 AM
Surr: Toluene-d8	102	65-135		%Rec	1	10/27/2016 9:18:08 AM

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: EFFLUENT	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617474							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	17.7	5.00						9.569	59.7	30	R
Surr: 4-Bromofluorobenzene	2.60		2.500		104	65	135		0		
Surr: Toluene-d8	2.56		2.500		102	65	135		0		

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32609	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: MBLKW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617486							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135				
Surr: Toluene-d8	2.58		2.500		103	65	135				

Sample ID LCS-R32609	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: LCSW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617485							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	52.8	5.00	50.00	0	106	65	135				
Surr: 4-Bromofluorobenzene	2.61		2.500		104	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32609							
Client ID: BATCH	Batch ID: R32609		Analysis Date: 10/28/2016	SeqNo: 617533							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	12.5	5.00						13.20	5.68	30	
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135		0		
Surr: Toluene-d8	2.57		2.500		103	65	135		0		



Work Order: 1610367
 CLIENT: Blaes Environmental
 Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610367-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	EFFLUENT	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617452

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	Q
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0235	0.100						0.03597	42.1	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.0838	0.100						0.07921	5.61	30	J
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0951	0.100						0.1055	10.4	30	J
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	0.0558	0.100						0.01910	98.0	30	J
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	



Work Order: 1610367
 CLIENT: Blaes Environmental
 Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610367-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	EFFLUENT	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617452

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0324	0.100						0.03644	11.8	30	J
m,p-Xylene	0.449	0.100						0.1380	106	30	R
o-Xylene	0.260	0.100						0.05052	135	30	R
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	0.0305	0.100						0.02354	25.9	30	J
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0382	0.100						0.02736	33.1	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.270	0.100						0.03433	155	30	R
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	0.0344	0.100						0	200	30	J
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.612	0.100						0.05700	166	30	R
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.45		2.500		98.0	61.1	128		0		
Surr: Toluene-d8	2.52		2.500		101	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.57		2.500		103	64.7	128		0		

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: EFFLUENT	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									Q
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	0.0153	0.100									J
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	0.0788	0.100									J
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									

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CLIENT: Blaes Environmental
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	0.0275	0.100									J
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.44		2.500		97.6	61.1	128				
Surr: Toluene-d8	2.55		2.500		102	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.52		2.500		101	64.7	128				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	1.72	0.100	2.000	0	86.1	38.8	143				Q
Chloromethane	1.82	0.100	2.000	0	91.1	42.5	131				
Vinyl chloride	2.01	0.0200	2.000	0	100	56.2	130				
Bromomethane	2.67	0.100	2.000	0	134	45.4	138				
Trichlorofluoromethane	1.81	0.100	2.000	0	90.4	64.7	129				
Chloroethane	2.10	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	1.99	0.100	2.000	0	99.5	60.7	146				
Methylene chloride	2.08	0.100	2.000	0	104	60.3	135				
trans-1,2-Dichloroethene	2.07	0.100	2.000	0	103	71.3	129				
Methyl tert-butyl ether (MTBE)	2.25	0.100	2.000	0	113	75.4	123				
1,1-Dichloroethane	2.23	0.100	2.000	0	111	71.3	129				
2,2-Dichloropropane	2.90	0.200	2.000	0	145	37.8	132				S
cis-1,2-Dichloroethene	2.15	0.100	2.000	0	108	67.5	127				
Chloroform	2.13	0.100	2.000	0	107	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.08	0.100	2.000	0	104	72.1	133				
Carbon tetrachloride	2.15	0.100	2.000	0	107	64.4	133				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-R32608	SampType:	LCS	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	LCSW	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617469

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	2.07	0.100	2.000	0	104	65.8	126				
Benzene	2.17	0.100	2.000	0	108	67.1	132				
Trichloroethene (TCE)	2.10	0.100	2.000	0	105	71.9	130				
1,2-Dichloropropane	2.27	0.100	2.000	0	113	71.9	131				
Dichlorobromomethane	2.12	0.100	2.000	0	106	70	130				
Dibromomethane	2.19	0.100	2.000	0	109	74.2	125				
cis-1,3-Dichloropropene	2.33	0.100	2.000	0	117	62.8	135				
Toluene	2.29	0.100	2.000	0	114	73.6	127				
trans-1,3-Dichloropropene	2.38	0.100	2.000	0	119	58.1	138				
1,1,2-Trichloroethane	2.22	0.100	2.000	0	111	65.4	128				
1,3-Dichloropropane	2.19	0.100	2.000	0	110	71.9	131				
Tetrachloroethene (PCE)	2.12	0.100	2.000	0	106	52.4	140				
Dibromochloromethane	2.20	0.100	2.000	0	110	68.7	139				
1,2-Dibromoethane (EDB)	2.27	0.00100	2.000	0	114	71.2	129				
Chlorobenzene	2.18	0.100	2.000	0	109	77.2	122				
1,1,1,2-Tetrachloroethane	2.23	0.100	2.000	0	111	76.2	130				
Ethylbenzene	2.12	0.100	2.000	0	106	78	127				
m,p-Xylene	4.27	0.100	4.000	0	107	77.5	130				
o-Xylene	2.10	0.100	2.000	0	105	77.6	126				
Styrene	2.15	0.100	2.000	0	108	66.8	137				
Isopropylbenzene	2.12	0.100	2.000	0	106	75.9	133				
Bromoform	2.27	0.100	2.000	0	113	69.9	142				
1,1,1,2,2-Tetrachloroethane	2.13	0.100	2.000	0	106	68	134				
n-Propylbenzene	2.15	0.100	2.000	0	107	77.1	133				
Bromobenzene	2.21	0.100	2.000	0	111	71.1	131				
1,3,5-Trimethylbenzene	2.15	0.100	2.000	0	107	76.2	133				
2-Chlorotoluene	2.16	0.100	2.000	0	108	67.1	137				
4-Chlorotoluene	2.14	0.100	2.000	0	107	70.7	132				
tert-Butylbenzene	2.12	0.100	2.000	0	106	71.3	139				
1,2,3-Trichloropropane	2.23	0.100	2.000	0	111	70.8	132				
1,2,4-Trichlorobenzene	2.14	0.200	2.000	0	107	61.4	139				

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 CLIENT: Blaes Environmental
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-R32608	SampType:	LCS	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	LCSW	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617469

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
sec-Butylbenzene	2.09	0.100	2.000	0	105	77.4	136				
4-Isopropyltoluene	2.10	0.100	2.000	0	105	78.1	131				
1,3-Dichlorobenzene	2.17	0.100	2.000	0	109	73.5	125				
1,4-Dichlorobenzene	2.11	0.100	2.000	0	106	71.4	125				
n-Butylbenzene	2.19	0.100	2.000	0	109	69.8	138				
1,2-Dichlorobenzene	2.16	0.100	2.000	0	108	74.2	123				
1,2-Dibromo-3-chloropropane	2.40	0.100	2.000	0	120	66.1	138				
1,2,4-Trimethylbenzene	2.17	0.100	2.000	0	109	72.3	133				
Hexachlorobutadiene	2.16	0.400	2.000	0	108	60.9	141				
Naphthalene	2.12	0.100	2.000	0	106	58.2	140				
1,2,3-Trichlorobenzene	2.08	0.400	2.000	0	104	61.3	133				
Surr: Dibromofluoromethane	2.52		2.500		101	61.1	128				
Surr: Toluene-d8	2.61		2.500		104	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.67		2.500		107	64.7	128				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608
Client ID:	BATCH	Batch ID:	R32608			Analysis Date:	10/28/2016	SeqNo:	617526

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0143	0.100						0.05208	114	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608
Client ID:	BATCH	Batch ID:	R32608			Analysis Date:	10/28/2016	SeqNo:	617526

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	Q
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.127	0.100						0.08448	40.0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	0.0732	0.100						0.08151	10.7	30	J
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0.03179	200	30	
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	4.02	0.100						4.578	13.0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	0.0834	0.100						0.05238	45.8	30	J
o-Xylene	ND	0.100						0	0	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608		
Client ID:	BATCH	Batch ID:	R32608			Analysis Date:	10/28/2016	SeqNo:	617526		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.0525	0.100						0	200	30	J
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.106	0.100						0.03408	103	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.49		2.500		99.8	61.1	128		0		
Surr: Toluene-d8	2.57		2.500		103	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.53		2.500		101	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1610367**
 Date Received: **10/25/2016 3:00:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Air Chain of Custody Record & Laboratory Services Agreement

Laboratory Project No (Internal):

101035107

Date: 10/25/16 Page: 1 of 1

Project Name: CIRCLE RT # 6049 KANAWAUCK

Project No: 202-10049-05 Collected by: KANAWAUCK

Location: KANAWAUCK, WA

Reports To (PM): DAN BLASS

Email (PM): DBlass@pacenvironment.com

Client: BLASS ENVIRONMENT
Address: 45 E. MANLYBY WAY
City, State, Zip: PHOENIX, ARIZONA 85012
Telephone: 602-725-0707 Fax: _____

Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter Minican HP = High Pressure Cylinder HI = Glass Headspace Jar

Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal		Equipment Code	Field Initial Sample Pressure ("Hg)	Field Final Sample Pressure ("Hg)	Analysis Requested	Internal	
							Evacuation Pressure (Inch)	Pressure at Time of Pick-up ("Hg)					Receipt Date	Final Pressure ("Hg)
1														
INFLUENT		10/25/16				TRUCK						8015 NPH NORTHGX		
		8:15 AM				646						8260 AVE 4ST VIC'S		
4		10/25/16										11		
EFFLUENT		8:14 AM												
4														
4														
4														
5														

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: [Signature] Date/Time: 10/25/16 3:00pm

Received: [Signature] Date/Time: 10/25/16 1:00

Relinquished: _____ Date/Time: _____

Received: _____ Date/Time: _____

TAT -> STD Rush (specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049 Kennewick, WA
Work Order Number: 1610405

October 31, 2016

Attention Dan Blaes:

Fremont Analytical, Inc. received 8 sample(s) on 10/27/2016 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 10/31/2016

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Work Order: 1610405

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1610405-001	VAPOR - B INFLUENT	10/26/2016 1:01 PM	10/27/2016 10:00 AM
1610405-002	VAPOR - C INFLUENT	10/26/2016 4:01 PM	10/27/2016 10:00 AM
1610405-003	VAPOR - D INFLUENT	10/26/2016 5:01 PM	10/27/2016 10:00 AM
1610405-004	VAPOR - E INFLUENT	10/26/2016 6:01 PM	10/27/2016 10:00 AM
1610405-005	VAPOR - B EFFLUENT	10/26/2016 1:00 PM	10/27/2016 10:00 AM
1610405-006	VAPOR - C EFFLUENT	10/26/2016 4:00 PM	10/27/2016 10:00 AM
1610405-007	VAPOR - D EFFLUENT	10/26/2016 5:00 PM	10/27/2016 10:00 AM
1610405-008	VAPOR - E EFFLUENT	10/26/2016 6:00 PM	10/27/2016 10:00 AM

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-001
Client Sample ID: VAPOR - B INFLUENT

Collection Date: 10/26/2016 1:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 3:38:30 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 3:38:30 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Methylene chloride	0.0522	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 3:38:30 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Chloroform	0.111	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Toluene	0.0618	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Tetrachloroethene (PCE)	0.563	0.100		µg/L	1	10/27/2016 3:38:30 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 3:38:30 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Ethylbenzene	0.129	0.100		µg/L	1	10/27/2016 3:38:30 PM
m,p-Xylene	20.0	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
o-Xylene	13.5	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Isopropylbenzene	1.17	0.100		µg/L	1	10/27/2016 3:38:30 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 1:01:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-001

Matrix: Air

Client Sample ID: VAPOR - B INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
n-Propylbenzene	2.04	0.100		µg/L	1	10/27/2016 3:38:30 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,3,5-Trimethylbenzene	11.9	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
tert-Butylbenzene	0.0274	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 3:38:30 PM
sec-Butylbenzene	0.832	0.100		µg/L	1	10/27/2016 3:38:30 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2,4-Trimethylbenzene	23.4	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 3:38:30 PM
Naphthalene	0.0343	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 3:38:30 PM
Surr: Dibromofluoromethane	99.9	61.1-128		%Rec	1	10/27/2016 3:38:30 PM
Surr: Toluene-d8	105	66-138		%Rec	1	10/27/2016 3:38:30 PM
Surr: 1-Bromo-4-fluorobenzene	106	64.7-128		%Rec	1	10/27/2016 3:38:30 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	417	50.0	D	µg/L	10	10/28/2016 5:24:21 PM
Surr: 4-Bromofluorobenzene	108	65-135		%Rec	1	10/27/2016 3:38:30 PM
Surr: Toluene-d8	100	65-135		%Rec	1	10/27/2016 3:38:30 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-002
Client Sample ID: VAPOR - C INFLUENT

Collection Date: 10/26/2016 4:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 4:07:46 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 4:07:46 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Methylene chloride	0.0630	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 4:07:46 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Chloroform	0.0746	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Toluene	0.294	0.100		µg/L	1	10/27/2016 4:07:46 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Tetrachloroethene (PCE)	0.202	0.100		µg/L	1	10/27/2016 4:07:46 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 4:07:46 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Ethylbenzene	0.132	0.100		µg/L	1	10/27/2016 4:07:46 PM
m,p-Xylene	12.7	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
o-Xylene	11.7	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Isopropylbenzene	0.354	0.100		µg/L	1	10/27/2016 4:07:46 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 4:01:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-002

Matrix: Air

Client Sample ID: VAPOR - C INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
n-Propylbenzene	0.546	0.100		µg/L	1	10/27/2016 4:07:46 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,3,5-Trimethylbenzene	5.99	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
tert-Butylbenzene	0.0247	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 4:07:46 PM
sec-Butylbenzene	0.315	0.100		µg/L	1	10/27/2016 4:07:46 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2,4-Trimethylbenzene	10.9	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 4:07:46 PM
Naphthalene	0.0455	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 4:07:46 PM
Surr: Dibromofluoromethane	98.2	61.1-128		%Rec	1	10/27/2016 4:07:46 PM
Surr: Toluene-d8	106	66-138		%Rec	1	10/27/2016 4:07:46 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 4:07:46 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	436	50.0	D	µg/L	10	10/28/2016 5:53:38 PM
Surr: 4-Bromofluorobenzene	108	65-135		%Rec	1	10/27/2016 4:07:46 PM
Surr: Toluene-d8	103	65-135		%Rec	1	10/27/2016 4:07:46 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-003
Client Sample ID: VAPOR - D INFLUENT

Collection Date: 10/26/2016 5:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 4:37:02 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 4:37:02 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Methylene chloride	0.0150	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 4:37:02 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Chloroform	0.0839	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Toluene	0.900	0.100		µg/L	1	10/27/2016 4:37:02 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Tetrachloroethene (PCE)	0.0931	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 4:37:02 PM
Chlorobenzene	0.0154	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Ethylbenzene	3.20	0.100		µg/L	1	10/27/2016 4:37:02 PM
m,p-Xylene	327	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
o-Xylene	174	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Isopropylbenzene	5.21	0.100		µg/L	1	10/27/2016 4:37:02 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 5:01:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-003

Matrix: Air

Client Sample ID: VAPOR - D INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608

Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
n-Propylbenzene	3.01	0.100		µg/L	1	10/27/2016 4:37:02 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,3,5-Trimethylbenzene	16.8	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
tert-Butylbenzene	0.0320	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 4:37:02 PM
sec-Butylbenzene	0.849	0.100		µg/L	1	10/27/2016 4:37:02 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2,4-Trimethylbenzene	22.1	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 4:37:02 PM
Naphthalene	0.0336	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 4:37:02 PM
Surr: Dibromofluoromethane	97.1	61.1-128		%Rec	1	10/27/2016 4:37:02 PM
Surr: Toluene-d8	114	66-138		%Rec	1	10/27/2016 4:37:02 PM
Surr: 1-Bromo-4-fluorobenzene	115	64.7-128		%Rec	1	10/27/2016 4:37:02 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609

Analyst: EM

Gasoline	2,740	250	D	µg/L	50	10/28/2016 6:52:11 PM
Surr: 4-Bromofluorobenzene	117	65-135		%Rec	1	10/27/2016 4:37:02 PM
Surr: Toluene-d8	107	65-135		%Rec	1	10/27/2016 4:37:02 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-004
Client Sample ID: VAPOR - E INFLUENT

Collection Date: 10/26/2016 6:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 5:35:30 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 5:35:30 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Methylene chloride	0.0154	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 5:35:30 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Chloroform	0.0598	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Toluene	0.0759	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Tetrachloroethene (PCE)	0.0728	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 5:35:30 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Ethylbenzene	0.263	0.100		µg/L	1	10/27/2016 5:35:30 PM
m,p-Xylene	45.0	0.100		µg/L	1	10/27/2016 5:35:30 PM
o-Xylene	29.3	0.100		µg/L	1	10/27/2016 5:35:30 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Isopropylbenzene	0.833	0.100		µg/L	1	10/27/2016 5:35:30 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 6:01:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-004

Matrix: Air

Client Sample ID: VAPOR - E INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
n-Propylbenzene	1.00	0.100		µg/L	1	10/27/2016 5:35:30 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,3,5-Trimethylbenzene	15.4	0.100		µg/L	1	10/27/2016 5:35:30 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
tert-Butylbenzene	0.0267	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 5:35:30 PM
sec-Butylbenzene	0.463	0.100		µg/L	1	10/27/2016 5:35:30 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2,4-Trimethylbenzene	29.0	0.100		µg/L	1	10/27/2016 5:35:30 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 5:35:30 PM
Naphthalene	0.0355	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 5:35:30 PM
Surr: Dibromofluoromethane	97.2	61.1-128		%Rec	1	10/27/2016 5:35:30 PM
Surr: Toluene-d8	104	66-138		%Rec	1	10/27/2016 5:35:30 PM
Surr: 1-Bromo-4-fluorobenzene	105	64.7-128		%Rec	1	10/27/2016 5:35:30 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	452	50.0	D	µg/L	10	10/28/2016 6:22:53 PM
Surr: 4-Bromofluorobenzene	110	65-135		%Rec	1	10/27/2016 5:35:30 PM
Surr: Toluene-d8	103	65-135		%Rec	1	10/27/2016 5:35:30 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-005
Client Sample ID: VAPOR - B EFFLUENT

Collection Date: 10/26/2016 1:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 12:13:16 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 12:13:16 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Methylene chloride	0.0722	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 12:13:16 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Chloroform	0.0598	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Toluene	0.0522	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 12:13:16 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Ethylbenzene	0.0264	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
m,p-Xylene	0.292	0.100		µg/L	1	10/27/2016 12:13:16 PM
o-Xylene	0.186	0.100		µg/L	1	10/27/2016 12:13:16 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Isopropylbenzene	0.0317	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-005
Client Sample ID: VAPOR - B EFFLUENT

Collection Date: 10/26/2016 1:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
n-Propylbenzene	0.0428	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,3,5-Trimethylbenzene	0.189	0.100		µg/L	1	10/27/2016 12:13:16 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 12:13:16 PM
sec-Butylbenzene	0.0349	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,4-Trimethylbenzene	0.376	0.100		µg/L	1	10/27/2016 12:13:16 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 12:13:16 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 12:13:16 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 12:13:16 PM
Surr: Toluene-d8	102	66-138		%Rec	1	10/27/2016 12:13:16 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 12:13:16 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	13.0	5.00		µg/L	1	10/27/2016 12:13:16 PM
Surr: 4-Bromofluorobenzene	104	65-135		%Rec	1	10/27/2016 12:13:16 PM
Surr: Toluene-d8	102	65-135		%Rec	1	10/27/2016 12:13:16 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-006
Client Sample ID: VAPOR - C EFFLUENT

Collection Date: 10/26/2016 4:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 12:42:33 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 12:42:33 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Methylene chloride	0.0826	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 12:42:33 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Chloroform	0.0730	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Toluene	0.0652	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 12:42:33 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Ethylbenzene	0.0317	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
m,p-Xylene	0.415	0.100		µg/L	1	10/27/2016 12:42:33 PM
o-Xylene	0.254	0.100		µg/L	1	10/27/2016 12:42:33 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Isopropylbenzene	0.0365	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 4:00:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-006

Matrix: Air

Client Sample ID: VAPOR - C EFFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
n-Propylbenzene	0.0538	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,3,5-Trimethylbenzene	0.263	0.100		µg/L	1	10/27/2016 12:42:33 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 12:42:33 PM
sec-Butylbenzene	0.0355	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,4-Trimethylbenzene	0.591	0.100		µg/L	1	10/27/2016 12:42:33 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 12:42:33 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 12:42:33 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 12:42:33 PM
Surr: Toluene-d8	105	66-138		%Rec	1	10/27/2016 12:42:33 PM
Surr: 1-Bromo-4-fluorobenzene	104	64.7-128		%Rec	1	10/27/2016 12:42:33 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	15.8	5.00		µg/L	1	10/27/2016 12:42:33 PM
Surr: 4-Bromofluorobenzene	105	65-135		%Rec	1	10/27/2016 12:42:33 PM
Surr: Toluene-d8	103	65-135		%Rec	1	10/27/2016 12:42:33 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-007
Client Sample ID: VAPOR - D EFFLUENT

Collection Date: 10/26/2016 5:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 1:11:59 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 1:11:59 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Methylene chloride	0.0806	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 1:11:59 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Chloroform	0.0595	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Toluene	0.0694	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 1:11:59 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Ethylbenzene	0.0316	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
m,p-Xylene	0.565	0.100		µg/L	1	10/27/2016 1:11:59 PM
o-Xylene	0.389	0.100		µg/L	1	10/27/2016 1:11:59 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Isopropylbenzene	0.0354	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 5:00:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-007

Matrix: Air

Client Sample ID: VAPOR - D EFFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
n-Propylbenzene	0.0570	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,3,5-Trimethylbenzene	0.338	0.100		µg/L	1	10/27/2016 1:11:59 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 1:11:59 PM
sec-Butylbenzene	0.0373	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,4-Trimethylbenzene	0.774	0.100		µg/L	1	10/27/2016 1:11:59 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 1:11:59 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 1:11:59 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 1:11:59 PM
Surr: Toluene-d8	103	66-138		%Rec	1	10/27/2016 1:11:59 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 1:11:59 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	17.7	5.00		µg/L	1	10/27/2016 1:11:59 PM
Surr: 4-Bromofluorobenzene	105	65-135		%Rec	1	10/27/2016 1:11:59 PM
Surr: Toluene-d8	102	65-135		%Rec	1	10/27/2016 1:11:59 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-008
Client Sample ID: VAPOR - E EFFLUENT

Collection Date: 10/26/2016 6:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 1:41:21 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 1:41:21 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Methylene chloride	0.0461	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 1:41:21 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Chloroform	0.106	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Toluene	0.0573	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 1:41:21 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Ethylbenzene	0.0525	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
m,p-Xylene	4.88	0.100		µg/L	1	10/27/2016 1:41:21 PM
o-Xylene	2.81	0.100		µg/L	1	10/27/2016 1:41:21 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Isopropylbenzene	0.0734	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-008
Client Sample ID: VAPOR - E EFFLUENT

Collection Date: 10/26/2016 6:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
n-Propylbenzene	0.0828	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,3,5-Trimethylbenzene	0.667	0.100		µg/L	1	10/27/2016 1:41:21 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 1:41:21 PM
sec-Butylbenzene	0.0405	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,4-Trimethylbenzene	1.21	0.100		µg/L	1	10/27/2016 1:41:21 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 1:41:21 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 1:41:21 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 1:41:21 PM
Surr: Toluene-d8	104	66-138		%Rec	1	10/27/2016 1:41:21 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 1:41:21 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	41.1	5.00		µg/L	1	10/27/2016 1:41:21 PM
Surr: 4-Bromofluorobenzene	104	65-135		%Rec	1	10/27/2016 1:41:21 PM
Surr: Toluene-d8	100	65-135		%Rec	1	10/27/2016 1:41:21 PM

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: BATCH	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617474							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	17.7	5.00						9.569	59.7	30	R
Surr: 4-Bromofluorobenzene	2.60		2.500		104	65	135		0		
Surr: Toluene-d8	2.56		2.500		102	65	135		0		

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32609	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: MBLKW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617486							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135				
Surr: Toluene-d8	2.58		2.500		103	65	135				

Sample ID LCS-R32609	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: LCSW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617485							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	52.8	5.00	50.00	0	106	65	135				
Surr: 4-Bromofluorobenzene	2.61		2.500		104	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32609							
Client ID: BATCH	Batch ID: R32609		Analysis Date: 10/28/2016	SeqNo: 617533							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	12.5	5.00						13.20	5.68	30	
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135		0		
Surr: Toluene-d8	2.57		2.500		103	65	135		0		



Date: 10/31/2016

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	Q
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0235	0.100						0.03597	42.1	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.0838	0.100						0.07921	5.61	30	J
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0951	0.100						0.1055	10.4	30	J
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	0.0558	0.100						0.01910	98.0	30	J
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	



Work Order: 1610405
CLIENT: Blaes Environmental
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0324	0.100						0.03644	11.8	30	J
m,p-Xylene	0.449	0.100						0.1380	106	30	R
o-Xylene	0.260	0.100						0.05052	135	30	R
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	0.0305	0.100						0.02354	25.9	30	J
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0382	0.100						0.02736	33.1	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.270	0.100						0.03433	155	30	R
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	0.0344	0.100						0	200	30	J
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.612	0.100						0.05700	166	30	R
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.45		2.500		98.0	61.1	128		0		
Surr: Toluene-d8	2.52		2.500		101	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.57		2.500		103	64.7	128		0		

Work Order: 1610405
CLIENT: Blaes Environmental
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									Q
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	0.0153	0.100									J
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	0.0788	0.100									J
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									



Work Order: 1610405
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	0.0275	0.100									J
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.44		2.500		97.6	61.1	128				
Surr: Toluene-d8	2.55		2.500		102	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.52		2.500		101	64.7	128				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	1.72	0.100	2.000	0	86.1	38.8	143				Q
Chloromethane	1.82	0.100	2.000	0	91.1	42.5	131				
Vinyl chloride	2.01	0.0200	2.000	0	100	56.2	130				
Bromomethane	2.67	0.100	2.000	0	134	45.4	138				
Trichlorofluoromethane	1.81	0.100	2.000	0	90.4	64.7	129				
Chloroethane	2.10	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	1.99	0.100	2.000	0	99.5	60.7	146				
Methylene chloride	2.08	0.100	2.000	0	104	60.3	135				
trans-1,2-Dichloroethene	2.07	0.100	2.000	0	103	71.3	129				
Methyl tert-butyl ether (MTBE)	2.25	0.100	2.000	0	113	75.4	123				
1,1-Dichloroethane	2.23	0.100	2.000	0	111	71.3	129				
2,2-Dichloropropane	2.90	0.200	2.000	0	145	37.8	132				S
cis-1,2-Dichloroethene	2.15	0.100	2.000	0	108	67.5	127				
Chloroform	2.13	0.100	2.000	0	107	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.08	0.100	2.000	0	104	72.1	133				
Carbon tetrachloride	2.15	0.100	2.000	0	107	64.4	133				



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-R32608	SampType:	LCS	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	LCSW	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617469

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	2.07	0.100	2.000	0	104	65.8	126				
Benzene	2.17	0.100	2.000	0	108	67.1	132				
Trichloroethene (TCE)	2.10	0.100	2.000	0	105	71.9	130				
1,2-Dichloropropane	2.27	0.100	2.000	0	113	71.9	131				
Dichlorobromomethane	2.12	0.100	2.000	0	106	70	130				
Dibromomethane	2.19	0.100	2.000	0	109	74.2	125				
cis-1,3-Dichloropropene	2.33	0.100	2.000	0	117	62.8	135				
Toluene	2.29	0.100	2.000	0	114	73.6	127				
trans-1,3-Dichloropropene	2.38	0.100	2.000	0	119	58.1	138				
1,1,2-Trichloroethane	2.22	0.100	2.000	0	111	65.4	128				
1,3-Dichloropropane	2.19	0.100	2.000	0	110	71.9	131				
Tetrachloroethene (PCE)	2.12	0.100	2.000	0	106	52.4	140				
Dibromochloromethane	2.20	0.100	2.000	0	110	68.7	139				
1,2-Dibromoethane (EDB)	2.27	0.00100	2.000	0	114	71.2	129				
Chlorobenzene	2.18	0.100	2.000	0	109	77.2	122				
1,1,1,2-Tetrachloroethane	2.23	0.100	2.000	0	111	76.2	130				
Ethylbenzene	2.12	0.100	2.000	0	106	78	127				
m,p-Xylene	4.27	0.100	4.000	0	107	77.5	130				
o-Xylene	2.10	0.100	2.000	0	105	77.6	126				
Styrene	2.15	0.100	2.000	0	108	66.8	137				
Isopropylbenzene	2.12	0.100	2.000	0	106	75.9	133				
Bromoform	2.27	0.100	2.000	0	113	69.9	142				
1,1,1,2,2-Tetrachloroethane	2.13	0.100	2.000	0	106	68	134				
n-Propylbenzene	2.15	0.100	2.000	0	107	77.1	133				
Bromobenzene	2.21	0.100	2.000	0	111	71.1	131				
1,3,5-Trimethylbenzene	2.15	0.100	2.000	0	107	76.2	133				
2-Chlorotoluene	2.16	0.100	2.000	0	108	67.1	137				
4-Chlorotoluene	2.14	0.100	2.000	0	107	70.7	132				
tert-Butylbenzene	2.12	0.100	2.000	0	106	71.3	139				
1,2,3-Trichloropropane	2.23	0.100	2.000	0	111	70.8	132				
1,2,4-Trichlorobenzene	2.14	0.200	2.000	0	107	61.4	139				

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	2.09	0.100	2.000	0	105	77.4	136				
4-Isopropyltoluene	2.10	0.100	2.000	0	105	78.1	131				
1,3-Dichlorobenzene	2.17	0.100	2.000	0	109	73.5	125				
1,4-Dichlorobenzene	2.11	0.100	2.000	0	106	71.4	125				
n-Butylbenzene	2.19	0.100	2.000	0	109	69.8	138				
1,2-Dichlorobenzene	2.16	0.100	2.000	0	108	74.2	123				
1,2-Dibromo-3-chloropropane	2.40	0.100	2.000	0	120	66.1	138				
1,2,4-Trimethylbenzene	2.17	0.100	2.000	0	109	72.3	133				
Hexachlorobutadiene	2.16	0.400	2.000	0	108	60.9	141				
Naphthalene	2.12	0.100	2.000	0	106	58.2	140				
1,2,3-Trichlorobenzene	2.08	0.400	2.000	0	104	61.3	133				
Surr: Dibromofluoromethane	2.52		2.500		101	61.1	128				
Surr: Toluene-d8	2.61		2.500		104	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.67		2.500		107	64.7	128				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID: 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/28/2016	SeqNo: 617526							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0143	0.100						0.05208	114	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	



Date: 10/31/2016

Work Order: 1610405
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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608
Client ID:	BATCH	Batch ID:	R32608			Analysis Date:	10/28/2016	SeqNo:	617526

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	Q
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.127	0.100						0.08448	40.0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	0.0732	0.100						0.08151	10.7	30	J
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0.03179	200	30	
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	4.02	0.100						4.578	13.0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	0.0834	0.100						0.05238	45.8	30	J
o-Xylene	ND	0.100						0	0	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	

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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608		
Client ID:	BATCH	Batch ID:	R32608	Analysis Date:	10/28/2016	SeqNo:	617526				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.0525	0.100						0	200	30	J
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.106	0.100						0.03408	103	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.49		2.500		99.8	61.1	128		0		
Surr: Toluene-d8	2.57		2.500		103	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.53		2.500		101	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1610405**
 Date Received: **10/27/2016 10:00:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record and Laboratory Services Agreement

Date: 10/27/16

Laboratory Project No (Internal): 1610405

Page: 1 of 1

Client: BUES ENVIRONMENTAL
 Address: 45 E. MONROE ST WY
 City, State, zip: PHOENIX, ARIZONA 85012
 Telephone: 602-728-0707 Fax: _____

Project Name: _____
 Project No: 202-6049-05
 Location: KEANEWICK, WA
 Report To (PM): DAN RUES
 PM Email: _____
 Collected by: D. BUES

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Pollutants										Comments							
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)		Total (T) Dissolved (D)	Anions (IC)***	EDB (801)				
1 VAPOR-B INFUSION	10/26/16	1:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 VAPOR-C INFUSION	10/26/16	4:01 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 VAPOR-D INFUSION	10/26/16	5:01 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 VAPOR-E INFUSION	10/26/16	6:01 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5																					
6 VAPOR-B EFFLUENT	10/26/16	1:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7 VAPOR-C EFFLUENT	10/26/16	4:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8 VAPOR-D EFFLUENT	10/26/16	5:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9 VAPOR-E EFFLUENT	10/26/16	6:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10																					

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Special Remarks: _____

Turn-around times for samples received after 4:00pm will begin on the following business day.

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: _____ Date/Time: 10/27/16 10:00 AM Received: _____ Date/Time: 10/27/16 10:00 AM



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049 Kennewick
Work Order Number: 1610367

October 31, 2016

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 10/25/2016 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike C. Ridgeway", written in a cursive style.

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 10/31/2016

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick
Work Order: 1610367

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1610367-001	INFLUENT	10/25/2016 8:15 AM	10/25/2016 3:00 PM
1610367-002	EFFLUENT	10/25/2016 8:14 AM	10/25/2016 3:00 PM

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-001
Client Sample ID: INFLUENT

Collection Date: 10/25/2016 8:15:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 2:10:36 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 2:10:36 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Methylene chloride	0.0487	0.100	J	µg/L	1	10/27/2016 2:10:36 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 2:10:36 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Chloroform	0.0920	0.100	J	µg/L	1	10/27/2016 2:10:36 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Toluene	0.121	0.100		µg/L	1	10/27/2016 2:10:36 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Tetrachloroethene (PCE)	0.0237	0.100	J	µg/L	1	10/27/2016 2:10:36 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 2:10:36 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Ethylbenzene	0.260	0.100		µg/L	1	10/27/2016 2:10:36 PM
m,p-Xylene	66.5	0.100		µg/L	1	10/27/2016 2:10:36 PM
o-Xylene	44.1	0.100		µg/L	1	10/27/2016 2:10:36 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
Isopropylbenzene	3.06	0.100		µg/L	1	10/27/2016 2:10:36 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-001
Client Sample ID: INFLUENT

Collection Date: 10/25/2016 8:15:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
n-Propylbenzene	3.25	0.100		µg/L	1	10/27/2016 2:10:36 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,3,5-Trimethylbenzene	23.9	0.100		µg/L	1	10/27/2016 2:10:36 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 2:10:36 PM
sec-Butylbenzene	1.17	0.100		µg/L	1	10/27/2016 2:10:36 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,4-Trimethylbenzene	35.6	0.100		µg/L	1	10/27/2016 2:10:36 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 2:10:36 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 2:10:36 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 2:10:36 PM
Surr: Dibromofluoromethane	99.4	61.1-128		%Rec	1	10/27/2016 2:10:36 PM
Surr: Toluene-d8	105	66-138		%Rec	1	10/27/2016 2:10:36 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	10/27/2016 2:10:36 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	8,440	500	D	µg/L	100	10/27/2016 10:45:20 AM
Surr: 4-Bromofluorobenzene	113	65-135		%Rec	1	10/27/2016 2:10:36 PM
Surr: Toluene-d8	100	65-135		%Rec	1	10/27/2016 2:10:36 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-002
Client Sample ID: EFFLUENT

Collection Date: 10/25/2016 8:14:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 9:18:08 AM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 9:18:08 AM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Methylene chloride	0.0360	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 9:18:08 AM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Chloroform	0.0792	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Benzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Toluene	0.106	0.100		µg/L	1	10/27/2016 9:18:08 AM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Tetrachloroethene (PCE)	0.0191	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 9:18:08 AM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Ethylbenzene	0.0364	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
m,p-Xylene	0.138	0.100		µg/L	1	10/27/2016 9:18:08 AM
o-Xylene	0.0505	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Styrene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
Isopropylbenzene	0.0235	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Bromoform	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick
Lab ID: 1610367-002
Client Sample ID: EFFLUENT

Collection Date: 10/25/2016 8:14:00 AM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
n-Propylbenzene	0.0274	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,3,5-Trimethylbenzene	0.0343	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 9:18:08 AM
sec-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,4-Trimethylbenzene	0.0570	0.100	J	µg/L	1	10/27/2016 9:18:08 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 9:18:08 AM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 9:18:08 AM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 9:18:08 AM
Surr: Dibromofluoromethane	97.9	61.1-128		%Rec	1	10/27/2016 9:18:08 AM
Surr: Toluene-d8	104	66-138		%Rec	1	10/27/2016 9:18:08 AM
Surr: 1-Bromo-4-fluorobenzene	101	64.7-128		%Rec	1	10/27/2016 9:18:08 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	9.57	5.00		µg/L	1	10/27/2016 9:18:08 AM
Surr: 4-Bromofluorobenzene	102	65-135		%Rec	1	10/27/2016 9:18:08 AM
Surr: Toluene-d8	102	65-135		%Rec	1	10/27/2016 9:18:08 AM

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: EFFLUENT	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617474							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	17.7	5.00						9.569	59.7	30	R
Surr: 4-Bromofluorobenzene	2.60		2.500		104	65	135		0		
Surr: Toluene-d8	2.56		2.500		102	65	135		0		

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32609	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: MBLKW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617486							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135				
Surr: Toluene-d8	2.58		2.500		103	65	135				

Sample ID LCS-R32609	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: LCSW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617485							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	52.8	5.00	50.00	0	106	65	135				
Surr: 4-Bromofluorobenzene	2.61		2.500		104	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32609							
Client ID: BATCH	Batch ID: R32609		Analysis Date: 10/28/2016	SeqNo: 617533							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	12.5	5.00						13.20	5.68	30	
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135		0		
Surr: Toluene-d8	2.57		2.500		103	65	135		0		

Work Order: 1610367
 CLIENT: Blaes Environmental
 Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610367-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608		
Client ID:	EFFLUENT	Batch ID:	R32608	Analysis Date:	10/27/2016	SeqNo:	617452				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	Q
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0235	0.100						0.03597	42.1	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.0838	0.100						0.07921	5.61	30	J
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0951	0.100						0.1055	10.4	30	J
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	0.0558	0.100						0.01910	98.0	30	J
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	



Work Order: 1610367
 CLIENT: Blaes Environmental
 Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608
Client ID: EFFLUENT	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0324	0.100						0.03644	11.8	30	J
m,p-Xylene	0.449	0.100						0.1380	106	30	R
o-Xylene	0.260	0.100						0.05052	135	30	R
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	0.0305	0.100						0.02354	25.9	30	J
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0382	0.100						0.02736	33.1	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.270	0.100						0.03433	155	30	R
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	0.0344	0.100						0	200	30	J
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.612	0.100						0.05700	166	30	R
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.45		2.500		98.0	61.1	128		0		
Surr: Toluene-d8	2.52		2.500		101	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.57		2.500		103	64.7	128		0		

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: EFFLUENT	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									Q
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	0.0153	0.100									J
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	0.0788	0.100									J
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									



Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0275	0.100									J
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.44		2.500		97.6	61.1	128				
Surr: Toluene-d8	2.55		2.500		102	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.52		2.500		101	64.7	128				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	1.72	0.100	2.000	0	86.1	38.8	143				Q
Chloromethane	1.82	0.100	2.000	0	91.1	42.5	131				
Vinyl chloride	2.01	0.0200	2.000	0	100	56.2	130				
Bromomethane	2.67	0.100	2.000	0	134	45.4	138				
Trichlorofluoromethane	1.81	0.100	2.000	0	90.4	64.7	129				
Chloroethane	2.10	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	1.99	0.100	2.000	0	99.5	60.7	146				
Methylene chloride	2.08	0.100	2.000	0	104	60.3	135				
trans-1,2-Dichloroethene	2.07	0.100	2.000	0	103	71.3	129				
Methyl tert-butyl ether (MTBE)	2.25	0.100	2.000	0	113	75.4	123				
1,1-Dichloroethane	2.23	0.100	2.000	0	111	71.3	129				
2,2-Dichloropropane	2.90	0.200	2.000	0	145	37.8	132				S
cis-1,2-Dichloroethene	2.15	0.100	2.000	0	108	67.5	127				
Chloroform	2.13	0.100	2.000	0	107	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.08	0.100	2.000	0	104	72.1	133				
Carbon tetrachloride	2.15	0.100	2.000	0	107	64.4	133				



Work Order: 1610367
 CLIENT: Blaes Environmental
 Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-R32608	SampType:	LCS	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	LCSW	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617469

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	2.07	0.100	2.000	0	104	65.8	126				
Benzene	2.17	0.100	2.000	0	108	67.1	132				
Trichloroethene (TCE)	2.10	0.100	2.000	0	105	71.9	130				
1,2-Dichloropropane	2.27	0.100	2.000	0	113	71.9	131				
Dichlorobromomethane	2.12	0.100	2.000	0	106	70	130				
Dibromomethane	2.19	0.100	2.000	0	109	74.2	125				
cis-1,3-Dichloropropene	2.33	0.100	2.000	0	117	62.8	135				
Toluene	2.29	0.100	2.000	0	114	73.6	127				
trans-1,3-Dichloropropene	2.38	0.100	2.000	0	119	58.1	138				
1,1,2-Trichloroethane	2.22	0.100	2.000	0	111	65.4	128				
1,3-Dichloropropane	2.19	0.100	2.000	0	110	71.9	131				
Tetrachloroethene (PCE)	2.12	0.100	2.000	0	106	52.4	140				
Dibromochloromethane	2.20	0.100	2.000	0	110	68.7	139				
1,2-Dibromoethane (EDB)	2.27	0.00100	2.000	0	114	71.2	129				
Chlorobenzene	2.18	0.100	2.000	0	109	77.2	122				
1,1,1,2-Tetrachloroethane	2.23	0.100	2.000	0	111	76.2	130				
Ethylbenzene	2.12	0.100	2.000	0	106	78	127				
m,p-Xylene	4.27	0.100	4.000	0	107	77.5	130				
o-Xylene	2.10	0.100	2.000	0	105	77.6	126				
Styrene	2.15	0.100	2.000	0	108	66.8	137				
Isopropylbenzene	2.12	0.100	2.000	0	106	75.9	133				
Bromoform	2.27	0.100	2.000	0	113	69.9	142				
1,1,1,2,2-Tetrachloroethane	2.13	0.100	2.000	0	106	68	134				
n-Propylbenzene	2.15	0.100	2.000	0	107	77.1	133				
Bromobenzene	2.21	0.100	2.000	0	111	71.1	131				
1,3,5-Trimethylbenzene	2.15	0.100	2.000	0	107	76.2	133				
2-Chlorotoluene	2.16	0.100	2.000	0	108	67.1	137				
4-Chlorotoluene	2.14	0.100	2.000	0	107	70.7	132				
tert-Butylbenzene	2.12	0.100	2.000	0	106	71.3	139				
1,2,3-Trichloropropane	2.23	0.100	2.000	0	111	70.8	132				
1,2,4-Trichlorobenzene	2.14	0.200	2.000	0	107	61.4	139				

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	2.09	0.100	2.000	0	105	77.4	136				
4-Isopropyltoluene	2.10	0.100	2.000	0	105	78.1	131				
1,3-Dichlorobenzene	2.17	0.100	2.000	0	109	73.5	125				
1,4-Dichlorobenzene	2.11	0.100	2.000	0	106	71.4	125				
n-Butylbenzene	2.19	0.100	2.000	0	109	69.8	138				
1,2-Dichlorobenzene	2.16	0.100	2.000	0	108	74.2	123				
1,2-Dibromo-3-chloropropane	2.40	0.100	2.000	0	120	66.1	138				
1,2,4-Trimethylbenzene	2.17	0.100	2.000	0	109	72.3	133				
Hexachlorobutadiene	2.16	0.400	2.000	0	108	60.9	141				
Naphthalene	2.12	0.100	2.000	0	106	58.2	140				
1,2,3-Trichlorobenzene	2.08	0.400	2.000	0	104	61.3	133				
Surr: Dibromofluoromethane	2.52		2.500		101	61.1	128				
Surr: Toluene-d8	2.61		2.500		104	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.67		2.500		107	64.7	128				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/28/2016	SeqNo: 617526							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0143	0.100						0.05208	114	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608	Client ID:	BATCH	Batch ID:	R32608	Analysis Date:	10/28/2016	SeqNo:	617526
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual						
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30							
1,1-Dichloroethane	ND	0.100						0	0	30							
2,2-Dichloropropane	ND	0.200						0	0	30	Q						
cis-1,2-Dichloroethene	ND	0.100						0	0	30							
Chloroform	0.127	0.100						0.08448	40.0	30							
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30							
1,1-Dichloropropene	ND	0.100						0	0	30							
Carbon tetrachloride	ND	0.100						0	0	30							
1,2-Dichloroethane	ND	0.100						0	0	30							
Benzene	ND	0.100						0	0	30							
Trichloroethene (TCE)	0.0732	0.100						0.08151	10.7	30	J						
1,2-Dichloropropane	ND	0.100						0	0	30							
Dichlorobromomethane	ND	0.100						0	0	30							
Dibromomethane	ND	0.100						0	0	30							
cis-1,3-Dichloropropene	ND	0.100						0	0	30							
Toluene	ND	0.100						0.03179	200	30							
trans-1,3-Dichloropropene	ND	0.100						0	0	30							
1,1,2-Trichloroethane	ND	0.100						0	0	30							
1,3-Dichloropropane	ND	0.100						0	0	30							
Tetrachloroethene (PCE)	4.02	0.100						4.578	13.0	30							
Dibromochloromethane	ND	0.100						0	0	30							
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30							
Chlorobenzene	ND	0.100						0	0	30							
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30							
Ethylbenzene	ND	0.100						0	0	30							
m,p-Xylene	0.0834	0.100						0.05238	45.8	30	J						
o-Xylene	ND	0.100						0	0	30							
Styrene	ND	0.100						0	0	30							
Isopropylbenzene	ND	0.100						0	0	30							
Bromoform	ND	0.100						0	0	30							
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30							

Work Order: 1610367
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32608
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/28/2016	SeqNo: 617526

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.0525	0.100						0	200	30	J
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.106	0.100						0.03408	103	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.49		2.500		99.8	61.1	128		0		
Surr: Toluene-d8	2.57		2.500		103	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.53		2.500		101	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1610367**
 Date Received: **10/25/2016 3:00:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Fremont
Analytical

Air Chain of Custody Record & Laboratory Services Agreement

Laboratory Project No (Internal):

10103107

Date: 10/25/16 Page: 1 of 1

Project Name: CIRCLE RT # 6049 KANAWAUCK
Project No: 202-10049-05 Collected by: KANAWAUCK

Location: KANAWAUCK, WA

Reports To (PM): DAN BLASS

Email (PM): DBlass@freemontanalytical.com

Client: BLASS ENVIRONMENT
Address: 45 E. MANLYBY WAY
City, State, Zip: PHOENIX, ARIZONA 85012
Telephone: 602-725-0707 Fax: _____

Gas Matrix Codes: 1 = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)
Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter Minican HP = High Pressure Cylinder HI = Glass Headspace Jar

Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal		Equipment Certification Code	Field Initial Sample Pressure ("Hg)	Field Final Sample Pressure ("Hg)	Analysis Requested	Internal	
							Evacuation Pressure (Inch)	Pressure at Time of Pick-up ("Hg)					Receipt Date	Final Pressure ("Hg)
INFLUENT		10/25/16				TRUCK	Pressure	Pressure				8015 NPH NORTHGX		
		8:15 AM				646	Date	Date/Time	Regulator	Time	Time	8260 AVE 4ST VIC'S		
EFFLUENT		10/25/16					Pressure	Pressure				11		
		8:14 AM					Date	Date/Time	Regulator	Time	Time			

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: [Signature] Date/Time: 10/25/16 3:00pm
Received: [Signature] Date/Time: 10/25/16 1:00
Relinquished: _____ Date/Time: _____
Received: _____ Date/Time: _____



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049 Kennewick, WA
Work Order Number: 1610405

October 31, 2016

Attention Dan Blaes:

Fremont Analytical, Inc. received 8 sample(s) on 10/27/2016 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 10/31/2016

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Work Order: 1610405

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1610405-001	VAPOR - B INFLUENT	10/26/2016 1:01 PM	10/27/2016 10:00 AM
1610405-002	VAPOR - C INFLUENT	10/26/2016 4:01 PM	10/27/2016 10:00 AM
1610405-003	VAPOR - D INFLUENT	10/26/2016 5:01 PM	10/27/2016 10:00 AM
1610405-004	VAPOR - E INFLUENT	10/26/2016 6:01 PM	10/27/2016 10:00 AM
1610405-005	VAPOR - B EFFLUENT	10/26/2016 1:00 PM	10/27/2016 10:00 AM
1610405-006	VAPOR - C EFFLUENT	10/26/2016 4:00 PM	10/27/2016 10:00 AM
1610405-007	VAPOR - D EFFLUENT	10/26/2016 5:00 PM	10/27/2016 10:00 AM
1610405-008	VAPOR - E EFFLUENT	10/26/2016 6:00 PM	10/27/2016 10:00 AM

CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-001
Client Sample ID: VAPOR - B INFLUENT

Collection Date: 10/26/2016 1:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 3:38:30 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 3:38:30 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Methylene chloride	0.0522	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 3:38:30 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Chloroform	0.111	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Toluene	0.0618	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Tetrachloroethene (PCE)	0.563	0.100		µg/L	1	10/27/2016 3:38:30 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 3:38:30 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Ethylbenzene	0.129	0.100		µg/L	1	10/27/2016 3:38:30 PM
m,p-Xylene	20.0	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
o-Xylene	13.5	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
Isopropylbenzene	1.17	0.100		µg/L	1	10/27/2016 3:38:30 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-001
Client Sample ID: VAPOR - B INFLUENT

Collection Date: 10/26/2016 1:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
n-Propylbenzene	2.04	0.100		µg/L	1	10/27/2016 3:38:30 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,3,5-Trimethylbenzene	11.9	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
tert-Butylbenzene	0.0274	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 3:38:30 PM
sec-Butylbenzene	0.832	0.100		µg/L	1	10/27/2016 3:38:30 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 3:38:30 PM
1,2,4-Trimethylbenzene	23.4	1.00	D	µg/L	10	10/28/2016 5:24:21 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 3:38:30 PM
Naphthalene	0.0343	0.100	J	µg/L	1	10/27/2016 3:38:30 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 3:38:30 PM
Surr: Dibromofluoromethane	99.9	61.1-128		%Rec	1	10/27/2016 3:38:30 PM
Surr: Toluene-d8	105	66-138		%Rec	1	10/27/2016 3:38:30 PM
Surr: 1-Bromo-4-fluorobenzene	106	64.7-128		%Rec	1	10/27/2016 3:38:30 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	417	50.0	D	µg/L	10	10/28/2016 5:24:21 PM
Surr: 4-Bromofluorobenzene	108	65-135		%Rec	1	10/27/2016 3:38:30 PM
Surr: Toluene-d8	100	65-135		%Rec	1	10/27/2016 3:38:30 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-002
Client Sample ID: VAPOR - C INFLUENT

Collection Date: 10/26/2016 4:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 4:07:46 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 4:07:46 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Methylene chloride	0.0630	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 4:07:46 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Chloroform	0.0746	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Toluene	0.294	0.100		µg/L	1	10/27/2016 4:07:46 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Tetrachloroethene (PCE)	0.202	0.100		µg/L	1	10/27/2016 4:07:46 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 4:07:46 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Ethylbenzene	0.132	0.100		µg/L	1	10/27/2016 4:07:46 PM
m,p-Xylene	12.7	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
o-Xylene	11.7	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
Isopropylbenzene	0.354	0.100		µg/L	1	10/27/2016 4:07:46 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-002
Client Sample ID: VAPOR - C INFLUENT

Collection Date: 10/26/2016 4:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
n-Propylbenzene	0.546	0.100		µg/L	1	10/27/2016 4:07:46 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,3,5-Trimethylbenzene	5.99	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
tert-Butylbenzene	0.0247	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 4:07:46 PM
sec-Butylbenzene	0.315	0.100		µg/L	1	10/27/2016 4:07:46 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 4:07:46 PM
1,2,4-Trimethylbenzene	10.9	1.00	D	µg/L	10	10/28/2016 5:53:38 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 4:07:46 PM
Naphthalene	0.0455	0.100	J	µg/L	1	10/27/2016 4:07:46 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 4:07:46 PM
Surr: Dibromofluoromethane	98.2	61.1-128		%Rec	1	10/27/2016 4:07:46 PM
Surr: Toluene-d8	106	66-138		%Rec	1	10/27/2016 4:07:46 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 4:07:46 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	436	50.0	D	µg/L	10	10/28/2016 5:53:38 PM
Surr: 4-Bromofluorobenzene	108	65-135		%Rec	1	10/27/2016 4:07:46 PM
Surr: Toluene-d8	103	65-135		%Rec	1	10/27/2016 4:07:46 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-003
Client Sample ID: VAPOR - D INFLUENT

Collection Date: 10/26/2016 5:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 4:37:02 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 4:37:02 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Methylene chloride	0.0150	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 4:37:02 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Chloroform	0.0839	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Toluene	0.900	0.100		µg/L	1	10/27/2016 4:37:02 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Tetrachloroethene (PCE)	0.0931	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 4:37:02 PM
Chlorobenzene	0.0154	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Ethylbenzene	3.20	0.100		µg/L	1	10/27/2016 4:37:02 PM
m,p-Xylene	327	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
o-Xylene	174	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
Isopropylbenzene	5.21	0.100		µg/L	1	10/27/2016 4:37:02 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-003
Client Sample ID: VAPOR - D INFLUENT

Collection Date: 10/26/2016 5:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
n-Propylbenzene	3.01	0.100		µg/L	1	10/27/2016 4:37:02 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,3,5-Trimethylbenzene	16.8	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
tert-Butylbenzene	0.0320	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 4:37:02 PM
sec-Butylbenzene	0.849	0.100		µg/L	1	10/27/2016 4:37:02 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 4:37:02 PM
1,2,4-Trimethylbenzene	22.1	5.00	D	µg/L	50	10/28/2016 6:52:11 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 4:37:02 PM
Naphthalene	0.0336	0.100	J	µg/L	1	10/27/2016 4:37:02 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 4:37:02 PM
Surr: Dibromofluoromethane	97.1	61.1-128		%Rec	1	10/27/2016 4:37:02 PM
Surr: Toluene-d8	114	66-138		%Rec	1	10/27/2016 4:37:02 PM
Surr: 1-Bromo-4-fluorobenzene	115	64.7-128		%Rec	1	10/27/2016 4:37:02 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	2,740	250	D	µg/L	50	10/28/2016 6:52:11 PM
Surr: 4-Bromofluorobenzene	117	65-135		%Rec	1	10/27/2016 4:37:02 PM
Surr: Toluene-d8	107	65-135		%Rec	1	10/27/2016 4:37:02 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-004
Client Sample ID: VAPOR - E INFLUENT

Collection Date: 10/26/2016 6:01:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 5:35:30 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 5:35:30 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Methylene chloride	0.0154	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 5:35:30 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Chloroform	0.0598	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Toluene	0.0759	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Tetrachloroethene (PCE)	0.0728	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 5:35:30 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Ethylbenzene	0.263	0.100		µg/L	1	10/27/2016 5:35:30 PM
m,p-Xylene	45.0	0.100		µg/L	1	10/27/2016 5:35:30 PM
o-Xylene	29.3	0.100		µg/L	1	10/27/2016 5:35:30 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
Isopropylbenzene	0.833	0.100		µg/L	1	10/27/2016 5:35:30 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 6:01:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-004

Matrix: Air

Client Sample ID: VAPOR - E INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
n-Propylbenzene	1.00	0.100		µg/L	1	10/27/2016 5:35:30 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,3,5-Trimethylbenzene	15.4	0.100		µg/L	1	10/27/2016 5:35:30 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
tert-Butylbenzene	0.0267	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 5:35:30 PM
sec-Butylbenzene	0.463	0.100		µg/L	1	10/27/2016 5:35:30 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 5:35:30 PM
1,2,4-Trimethylbenzene	29.0	0.100		µg/L	1	10/27/2016 5:35:30 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 5:35:30 PM
Naphthalene	0.0355	0.100	J	µg/L	1	10/27/2016 5:35:30 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 5:35:30 PM
Surr: Dibromofluoromethane	97.2	61.1-128		%Rec	1	10/27/2016 5:35:30 PM
Surr: Toluene-d8	104	66-138		%Rec	1	10/27/2016 5:35:30 PM
Surr: 1-Bromo-4-fluorobenzene	105	64.7-128		%Rec	1	10/27/2016 5:35:30 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	452	50.0	D	µg/L	10	10/28/2016 6:22:53 PM
Surr: 4-Bromofluorobenzene	110	65-135		%Rec	1	10/27/2016 5:35:30 PM
Surr: Toluene-d8	103	65-135		%Rec	1	10/27/2016 5:35:30 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-005
Client Sample ID: VAPOR - B EFFLUENT

Collection Date: 10/26/2016 1:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 12:13:16 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 12:13:16 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Methylene chloride	0.0722	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 12:13:16 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Chloroform	0.0598	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Toluene	0.0522	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 12:13:16 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Ethylbenzene	0.0264	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
m,p-Xylene	0.292	0.100		µg/L	1	10/27/2016 12:13:16 PM
o-Xylene	0.186	0.100		µg/L	1	10/27/2016 12:13:16 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
Isopropylbenzene	0.0317	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 1:00:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-005

Matrix: Air

Client Sample ID: VAPOR - B EFFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
n-Propylbenzene	0.0428	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,3,5-Trimethylbenzene	0.189	0.100		µg/L	1	10/27/2016 12:13:16 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 12:13:16 PM
sec-Butylbenzene	0.0349	0.100	J	µg/L	1	10/27/2016 12:13:16 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,4-Trimethylbenzene	0.376	0.100		µg/L	1	10/27/2016 12:13:16 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 12:13:16 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 12:13:16 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 12:13:16 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 12:13:16 PM
Surr: Toluene-d8	102	66-138		%Rec	1	10/27/2016 12:13:16 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 12:13:16 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	13.0	5.00		µg/L	1	10/27/2016 12:13:16 PM
Surr: 4-Bromofluorobenzene	104	65-135		%Rec	1	10/27/2016 12:13:16 PM
Surr: Toluene-d8	102	65-135		%Rec	1	10/27/2016 12:13:16 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-006
Client Sample ID: VAPOR - C EFFLUENT

Collection Date: 10/26/2016 4:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 12:42:33 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 12:42:33 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Methylene chloride	0.0826	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 12:42:33 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Chloroform	0.0730	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Toluene	0.0652	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 12:42:33 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Ethylbenzene	0.0317	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
m,p-Xylene	0.415	0.100		µg/L	1	10/27/2016 12:42:33 PM
o-Xylene	0.254	0.100		µg/L	1	10/27/2016 12:42:33 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
Isopropylbenzene	0.0365	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM



Client: Blaes Environmental

Collection Date: 10/26/2016 4:00:00 PM

Project: Circle K #6049 Kennewick, WA

Lab ID: 1610405-006

Matrix: Air

Client Sample ID: VAPOR - C EFFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
n-Propylbenzene	0.0538	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,3,5-Trimethylbenzene	0.263	0.100		µg/L	1	10/27/2016 12:42:33 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 12:42:33 PM
sec-Butylbenzene	0.0355	0.100	J	µg/L	1	10/27/2016 12:42:33 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,4-Trimethylbenzene	0.591	0.100		µg/L	1	10/27/2016 12:42:33 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 12:42:33 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 12:42:33 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 12:42:33 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 12:42:33 PM
Surr: Toluene-d8	105	66-138		%Rec	1	10/27/2016 12:42:33 PM
Surr: 1-Bromo-4-fluorobenzene	104	64.7-128		%Rec	1	10/27/2016 12:42:33 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	15.8	5.00		µg/L	1	10/27/2016 12:42:33 PM
Surr: 4-Bromofluorobenzene	105	65-135		%Rec	1	10/27/2016 12:42:33 PM
Surr: Toluene-d8	103	65-135		%Rec	1	10/27/2016 12:42:33 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-007
Client Sample ID: VAPOR - D EFFLUENT

Collection Date: 10/26/2016 5:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 1:11:59 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 1:11:59 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Methylene chloride	0.0806	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 1:11:59 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Chloroform	0.0595	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Toluene	0.0694	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 1:11:59 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Ethylbenzene	0.0316	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
m,p-Xylene	0.565	0.100		µg/L	1	10/27/2016 1:11:59 PM
o-Xylene	0.389	0.100		µg/L	1	10/27/2016 1:11:59 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
Isopropylbenzene	0.0354	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-007
Client Sample ID: VAPOR - D EFFLUENT

Collection Date: 10/26/2016 5:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
n-Propylbenzene	0.0570	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,3,5-Trimethylbenzene	0.338	0.100		µg/L	1	10/27/2016 1:11:59 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 1:11:59 PM
sec-Butylbenzene	0.0373	0.100	J	µg/L	1	10/27/2016 1:11:59 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,4-Trimethylbenzene	0.774	0.100		µg/L	1	10/27/2016 1:11:59 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 1:11:59 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 1:11:59 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 1:11:59 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 1:11:59 PM
Surr: Toluene-d8	103	66-138		%Rec	1	10/27/2016 1:11:59 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 1:11:59 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	17.7	5.00		µg/L	1	10/27/2016 1:11:59 PM
Surr: 4-Bromofluorobenzene	105	65-135		%Rec	1	10/27/2016 1:11:59 PM
Surr: Toluene-d8	102	65-135		%Rec	1	10/27/2016 1:11:59 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-008
Client Sample ID: VAPOR - E EFFLUENT

Collection Date: 10/26/2016 6:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>						
					Batch ID: R32608	Analyst: EM
Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	10/27/2016 1:41:21 PM
Chloromethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Vinyl chloride	ND	0.0200		µg/L	1	10/27/2016 1:41:21 PM
Bromomethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Chloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Methylene chloride	0.0461	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	10/27/2016 1:41:21 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Chloroform	0.106	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Carbon tetrachloride	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Benzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Dichlorobromomethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Dibromomethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Toluene	0.0573	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Dibromochloromethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	10/27/2016 1:41:21 PM
Chlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Ethylbenzene	0.0525	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
m,p-Xylene	4.88	0.100		µg/L	1	10/27/2016 1:41:21 PM
o-Xylene	2.81	0.100		µg/L	1	10/27/2016 1:41:21 PM
Styrene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
Isopropylbenzene	0.0734	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
Bromoform	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM



Client: Blaes Environmental
Project: Circle K #6049 Kennewick, WA
Lab ID: 1610405-008
Client Sample ID: VAPOR - E EFFLUENT

Collection Date: 10/26/2016 6:00:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R32608 Analyst: EM

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
n-Propylbenzene	0.0828	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
Bromobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,3,5-Trimethylbenzene	0.667	0.100		µg/L	1	10/27/2016 1:41:21 PM
2-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
4-Chlorotoluene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
tert-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	10/27/2016 1:41:21 PM
sec-Butylbenzene	0.0405	0.100	J	µg/L	1	10/27/2016 1:41:21 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
n-Butylbenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,4-Trimethylbenzene	1.21	0.100		µg/L	1	10/27/2016 1:41:21 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	10/27/2016 1:41:21 PM
Naphthalene	ND	0.100		µg/L	1	10/27/2016 1:41:21 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	10/27/2016 1:41:21 PM
Surr: Dibromofluoromethane	100	61.1-128		%Rec	1	10/27/2016 1:41:21 PM
Surr: Toluene-d8	104	66-138		%Rec	1	10/27/2016 1:41:21 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7-128		%Rec	1	10/27/2016 1:41:21 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R32609 Analyst: EM

Gasoline	41.1	5.00		µg/L	1	10/27/2016 1:41:21 PM
Surr: 4-Bromofluorobenzene	104	65-135		%Rec	1	10/27/2016 1:41:21 PM
Surr: Toluene-d8	100	65-135		%Rec	1	10/27/2016 1:41:21 PM

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: BATCH	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617474							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	17.7	5.00						9.569	59.7	30	R
Surr: 4-Bromofluorobenzene	2.60		2.500		104	65	135		0		
Surr: Toluene-d8	2.56		2.500		102	65	135		0		

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32609	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: MBLKW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617486							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135				
Surr: Toluene-d8	2.58		2.500		103	65	135				

Sample ID LCS-R32609	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32609							
Client ID: LCSW	Batch ID: R32609		Analysis Date: 10/27/2016	SeqNo: 617485							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	52.8	5.00	50.00	0	106	65	135				
Surr: 4-Bromofluorobenzene	2.61		2.500		104	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32609							
Client ID: BATCH	Batch ID: R32609		Analysis Date: 10/28/2016	SeqNo: 617533							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	12.5	5.00						13.20	5.68	30	
Surr: 4-Bromofluorobenzene	2.56		2.500		102	65	135		0		
Surr: Toluene-d8	2.57		2.500		103	65	135		0		



Date: 10/31/2016

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	Q
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0235	0.100						0.03597	42.1	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.0838	0.100						0.07921	5.61	30	J
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0951	0.100						0.1055	10.4	30	J
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	0.0558	0.100						0.01910	98.0	30	J
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	



Date: 10/31/2016

Work Order: 1610405
 CLIENT: Blaes Environmental
 Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0324	0.100						0.03644	11.8	30	J
m,p-Xylene	0.449	0.100						0.1380	106	30	R
o-Xylene	0.260	0.100						0.05052	135	30	R
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	0.0305	0.100						0.02354	25.9	30	J
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0382	0.100						0.02736	33.1	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.270	0.100						0.03433	155	30	R
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	0.0344	0.100						0	200	30	J
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.612	0.100						0.05700	166	30	R
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.45		2.500		98.0	61.1	128		0		
Surr: Toluene-d8	2.52		2.500		101	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.57		2.500		103	64.7	128		0		

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610367-002AREP	SampType: REP	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617452							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									Q
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	0.0153	0.100									J
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	0.0788	0.100									J
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID MB-R32608	SampType: MBLK	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: MBLKW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	0.0275	0.100									J
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.44		2.500		97.6	61.1	128				
Surr: Toluene-d8	2.55		2.500		102	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.52		2.500		101	64.7	128				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	1.72	0.100	2.000	0	86.1	38.8	143				Q
Chloromethane	1.82	0.100	2.000	0	91.1	42.5	131				
Vinyl chloride	2.01	0.0200	2.000	0	100	56.2	130				
Bromomethane	2.67	0.100	2.000	0	134	45.4	138				
Trichlorofluoromethane	1.81	0.100	2.000	0	90.4	64.7	129				
Chloroethane	2.10	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	1.99	0.100	2.000	0	99.5	60.7	146				
Methylene chloride	2.08	0.100	2.000	0	104	60.3	135				
trans-1,2-Dichloroethene	2.07	0.100	2.000	0	103	71.3	129				
Methyl tert-butyl ether (MTBE)	2.25	0.100	2.000	0	113	75.4	123				
1,1-Dichloroethane	2.23	0.100	2.000	0	111	71.3	129				
2,2-Dichloropropane	2.90	0.200	2.000	0	145	37.8	132				S
cis-1,2-Dichloroethene	2.15	0.100	2.000	0	108	67.5	127				
Chloroform	2.13	0.100	2.000	0	107	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.08	0.100	2.000	0	104	72.1	133				
Carbon tetrachloride	2.15	0.100	2.000	0	107	64.4	133				



Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	LCS-R32608	SampType:	LCS	Units:	µg/L	Prep Date:	10/27/2016	RunNo:	32608
Client ID:	LCSW	Batch ID:	R32608			Analysis Date:	10/27/2016	SeqNo:	617469

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	2.07	0.100	2.000	0	104	65.8	126				
Benzene	2.17	0.100	2.000	0	108	67.1	132				
Trichloroethene (TCE)	2.10	0.100	2.000	0	105	71.9	130				
1,2-Dichloropropane	2.27	0.100	2.000	0	113	71.9	131				
Dichlorobromomethane	2.12	0.100	2.000	0	106	70	130				
Dibromomethane	2.19	0.100	2.000	0	109	74.2	125				
cis-1,3-Dichloropropene	2.33	0.100	2.000	0	117	62.8	135				
Toluene	2.29	0.100	2.000	0	114	73.6	127				
trans-1,3-Dichloropropene	2.38	0.100	2.000	0	119	58.1	138				
1,1,2-Trichloroethane	2.22	0.100	2.000	0	111	65.4	128				
1,3-Dichloropropane	2.19	0.100	2.000	0	110	71.9	131				
Tetrachloroethene (PCE)	2.12	0.100	2.000	0	106	52.4	140				
Dibromochloromethane	2.20	0.100	2.000	0	110	68.7	139				
1,2-Dibromoethane (EDB)	2.27	0.00100	2.000	0	114	71.2	129				
Chlorobenzene	2.18	0.100	2.000	0	109	77.2	122				
1,1,1,2-Tetrachloroethane	2.23	0.100	2.000	0	111	76.2	130				
Ethylbenzene	2.12	0.100	2.000	0	106	78	127				
m,p-Xylene	4.27	0.100	4.000	0	107	77.5	130				
o-Xylene	2.10	0.100	2.000	0	105	77.6	126				
Styrene	2.15	0.100	2.000	0	108	66.8	137				
Isopropylbenzene	2.12	0.100	2.000	0	106	75.9	133				
Bromoform	2.27	0.100	2.000	0	113	69.9	142				
1,1,1,2,2-Tetrachloroethane	2.13	0.100	2.000	0	106	68	134				
n-Propylbenzene	2.15	0.100	2.000	0	107	77.1	133				
Bromobenzene	2.21	0.100	2.000	0	111	71.1	131				
1,3,5-Trimethylbenzene	2.15	0.100	2.000	0	107	76.2	133				
2-Chlorotoluene	2.16	0.100	2.000	0	108	67.1	137				
4-Chlorotoluene	2.14	0.100	2.000	0	107	70.7	132				
tert-Butylbenzene	2.12	0.100	2.000	0	106	71.3	139				
1,2,3-Trichloropropane	2.23	0.100	2.000	0	111	70.8	132				
1,2,4-Trichlorobenzene	2.14	0.200	2.000	0	107	61.4	139				

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID LCS-R32608	SampType: LCS	Units: µg/L	Prep Date: 10/27/2016	RunNo: 32608							
Client ID: LCSW	Batch ID: R32608		Analysis Date: 10/27/2016	SeqNo: 617469							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	2.09	0.100	2.000	0	105	77.4	136				
4-Isopropyltoluene	2.10	0.100	2.000	0	105	78.1	131				
1,3-Dichlorobenzene	2.17	0.100	2.000	0	109	73.5	125				
1,4-Dichlorobenzene	2.11	0.100	2.000	0	106	71.4	125				
n-Butylbenzene	2.19	0.100	2.000	0	109	69.8	138				
1,2-Dichlorobenzene	2.16	0.100	2.000	0	108	74.2	123				
1,2-Dibromo-3-chloropropane	2.40	0.100	2.000	0	120	66.1	138				
1,2,4-Trimethylbenzene	2.17	0.100	2.000	0	109	72.3	133				
Hexachlorobutadiene	2.16	0.400	2.000	0	108	60.9	141				
Naphthalene	2.12	0.100	2.000	0	106	58.2	140				
1,2,3-Trichlorobenzene	2.08	0.400	2.000	0	104	61.3	133				
Surr: Dibromofluoromethane	2.52		2.500		101	61.1	128				
Surr: Toluene-d8	2.61		2.500		104	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.67		2.500		107	64.7	128				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/28/2016	SeqNo: 617526							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0143	0.100						0.05208	114	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	



Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID 1610406-003REP	SampType: REP	Units: µg/L	Prep Date: 10/28/2016	RunNo: 32608							
Client ID: BATCH	Batch ID: R32608		Analysis Date: 10/28/2016	SeqNo: 617526							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	Q
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	0.127	0.100						0.08448	40.0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	0.0732	0.100						0.08151	10.7	30	J
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0.03179	200	30	
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	4.02	0.100						4.578	13.0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	0.0834	0.100						0.05238	45.8	30	J
o-Xylene	ND	0.100						0	0	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	

Work Order: 1610405
CLIENT: Blaes Environmental
Project: Circle K #6049 Kennewick, WA

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID	1610406-003REP	SampType:	REP	Units:	µg/L	Prep Date:	10/28/2016	RunNo:	32608		
Client ID:	BATCH	Batch ID:	R32608	Analysis Date:	10/28/2016	SeqNo:	617526				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.0525	0.100						0	200	30	J
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.106	0.100						0.03408	103	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.49		2.500		99.8	61.1	128		0		
Surr: Toluene-d8	2.57		2.500		103	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.53		2.500		101	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1610405**
 Date Received: **10/27/2016 10:00:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air Samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record and Laboratory Services Agreement

Date: 10/27/16

Laboratory Project No (Internal): 1610405

Page: 1 of 1

Client: BUES ENVIRONMENTAL
Address: 45 E. MONROE ST WY
City, State, zip: PHOENIX, ARIZONA 85012
Telephone: 602-728-0707 Fax: _____

Project Name: _____
Project No: 202-6049-05
Location: KEARNEY, WA
Report To (PM): DAN RUES
PM Email: _____
Collected by: D. BUES

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments		
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (I/C)***	EDB (801)
1 VAPOR-B INFUSION	10/26/16	1:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 VAPOR-C INFUSION	10/26/16	4:01 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 VAPOR-D INFUSION	10/26/16	5:01 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 VAPOR-E INFUSION	10/26/16	6:01 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
5																	
6 VAPOR-B EFFLUENT	10/26/16	1:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
7 VAPOR-C EFFLUENT	10/26/16	4:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
8 VAPOR-D EFFLUENT	10/26/16	5:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
9 VAPOR-E EFFLUENT	10/26/16	6:00 PM	Vapor	X	X	X	X	X	X	X	X	X	X	X	X	X	
10																	

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
Special Remarks: _____

Sample Disposal: Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)
Turn-around times for samples received after 4:00pm will begin on the following business day.

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>10/27/16 10:00 AM</u>	<u>[Signature]</u>	<u>10/27/16 10:00</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>10/27/16 10:00 AM</u>	<u>[Signature]</u>	<u>10/27/16 10:00</u>

APPENDIX E

2017 OPERATION AND MAINTENANCE SHEETS

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION											
CLIENT: CIRCLE K STORES INC					DATE: 4/27/2017		Page: 1 of 1				
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes						
SITE: 6006 West Clearwater					TIME ON-SITE: 8:00 AM						
LOCATION: Kennewick, Washington					TIME OFF-SITE: 6:00 PM						
EQUIPMENT DETAIL											
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM						
VE Operational?					Started for Season		AS Operational?			None	
Fault Indicator:					None		Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Initial		Final	
VE Hour Meter:					6670		AS Hour Meter:				
Time:					8:30 AM		Time:				
Temp Control (F°):					784		System Pressure: (PSI)				
Dilution Temp (F°):					693						
High Limit Temp (F°):					699		AS Well ID	Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):					25		X	Initial	Final	Initial	Final
Total Flow-Recorder:					91		AS-1				
Total Vacuum: ("Hg /"H ₂ O)					0.7 Hg		AS-2				
Recirc Valve (% open):					100%		AS-3				
Dilution Valve (% open):					50%		AS-4				
							AS-5				
Started on MW-1							AS-6				
							AS-7				
							AS-8				
							AS-9				
							AS-10				
							AS-11				
							AS-12				
OXIDIZER VAPOR MONITORING							AS-13				
Vapor Collected for Lab?					Yes		AS-14				
Effluent PID (ppm):							AS-15				
Post-Dilution INF PID (ppm):							AS-16				
Influent PID (ppm):							AS-17				
PID Model:							Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19			
X		Initial	Final	Initial	Final	Initial	Final	AS-20			
MW-1					Open		CONTROLLER SET POINTS				
MW-2							Gas Train/Process Temp (F°):				
VE-1							Auto Dilution (F°):				
VE-2							High Temp (F°):				
VE-3							UTILITY READING				
VE-4							Natural Gas (ft ³):				
							Propane (% full):				
							Electricity (kWh):				

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION												
CLIENT: CIRCLE K STORES INC					DATE: 6/5/2017		Page: 1 of 1					
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes							
SITE: 6006 West Clearwater					TIME ON-SITE: 11:00 AM							
LOCATION: Kennewick, Washington					TIME OFF-SITE: 2:00 PM							
EQUIPMENT DETAIL												
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM							
VE Operational?					No		AS Operational?			None		
Fault Indicator:					High Water Shutdown		Fault Indicator:					
System Adjusted Yes/No			Initial		Final		System Adjusted Yes/No			Initial		Final
VE Hour Meter:					6850		AS Hour Meter:					
Time:					11:00 AM		Time:					
Temp Control (F°):					785		System Pressure: (PSI)					
Dilution Temp (F°):					690							
High Limit Temp (F°):					690		AS Well ID	Pressure (psi)		Flow (cfm)		
Total Flow-Manifold (cfm):					20		X	Initial	Final	Initial	Final	
Total Flow-Recorder:					93		AS-1					
Total Vacuum: ("Hg /"H ₂ O)					2" Hg		AS-2					
Recirc Valve (% open):							AS-3					
Dilution Valve (% open):					50%		AS-4					
							AS-5					
Restarted and then still operating on MW-1							AS-6					
							AS-7					
							AS-8					
							AS-9					
							AS-10					
							AS-11					
							AS-12					
OXIDIZER VAPOR MONITORING							AS-13					
Vapor Collected for Lab?			Yes				AS-14					
Effluent PID (ppm):							AS-15					
Post-Dilution INF PID (ppm):							AS-16					
Influent PID (ppm):							AS-17					
PID Model:					Cal Gas:		AS-18					
VE Well ID	PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19					
X	Initial	Final	Initial	Final	Initial	Final	AS-20					
MW-1			Open				CONTROLLER SET POINTS					
MW-2							Gas Train/Process Temp (F°):					
VE-1							Auto Dilution (F°):					
VE-2							High Temp (F°):					
VE-3							UTILITY READING					
VE-4							Natural Gas (ft ³):					
							Propane (% full):					
							Electricity (kWh):					

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 6/12/2017		Page: 1 of 1		
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 2:00 PM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 4:00 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? Yes Running on Arrival					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		7022				AS Hour Meter:			
Time:		3:30 PM				Time:			
Temp Control (F°):		795				System Pressure: (PSI)			
Dilution Temp (F°):		722							
High Limit Temp (F°):		728				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Initial	
Total Flow-Recorder:		105				AS-1		Final	
Total Vacuum: ("Hg /"H ₂ O)		3 Hg				AS-2		Initial	
Recirc Valve (% open):						AS-3		Final	
Dilution Valve (% open):		30%				AS-4		Initial	
						AS-5		Final	
Operating on MW-1						AS-6		Initial	
						AS-7		Final	
						AS-8		Initial	
						AS-9		Final	
						AS-10		Initial	
						AS-11		Final	
						AS-12		Initial	
						AS-13		Final	
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?						AS-14		Initial	
Effluent PID (ppm):						AS-15		Final	
Post-Dilution INF PID (ppm):						AS-16		Initial	
Influent PID (ppm):						AS-17		Final	
PID Model:				Cal Gas:		AS-18		Initial	
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19	
VE Well ID		Initial		Final		Initial		Final	
MW-1				Open				CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1								Auto Dilution (F°):	
VE-2								High Temp (F°):	
VE-3								UTILITY READING	
VE-4								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 6/20/2017		Page: 1 of 1		
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 10:00 AM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 2:00 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? Yes Running on Arrival					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		7209.5		7211.6		AS Hour Meter:			
Time:		10:30 AM		12:50 PM		Time:			
Temp Control (F°):		750		800		System Pressure: (PSI)			
Dilution Temp (F°):		743		769					
High Limit Temp (F°):		743		769		AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Flow (cfm)	
Total Flow-Recorder:		105		100		AS-1		Initial Final	
Total Vacuum: ("Hg /"H ₂ O)		3 Hg		5 Hg		AS-2		Initial Final	
Recirc Valve (% open):						AS-3		Initial Final	
Dilution Valve (% open):		30%		20%		AS-4		Initial Final	
						AS-5		Initial Final	
After 10:30 vapor sampling event from previous well MW-1, switched to other VE-2 Well on site						AS-6		Initial Final	
						AS-7		Initial Final	
						AS-8		Initial Final	
Noted increase in vapor concentration on flow after switch						AS-9		Initial Final	
						AS-10		Initial Final	
						AS-11		Initial Final	
						AS-12		Initial Final	
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?		No				AS-13		Initial Final	
Effluent PID (ppm):						AS-14		Initial Final	
Post-Dilution INF PID (ppm):						AS-15		Initial Final	
Influent PID (ppm):						AS-16		Initial Final	
PID Model:				Cal Gas:		AS-17		Initial Final	
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-18	
AS-19		Initial Final		Initial Final		Initial Final		AS-19	
AS-20		Initial Final		Initial Final		Initial Final		AS-20	
MW-1				Open				CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1								Auto Dilution (F°):	
VE-2				Open				High Temp (F°):	
VE-3								UTILITY READING	
VE-4								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION										
CLIENT: CIRCLE K STORES INC					DATE: 6/27/2017		Page: 1 of 1			
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater					TIME ON-SITE: 9:00 AM					
LOCATION: Kennewick, Washington					TIME OFF-SITE: 10:00 AM					
EQUIPMENT DETAIL										
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM					
VE Operational? Yes Running on Arrival					AS Operational? None					
Fault Indicator: None					Fault Indicator:					
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final		
VE Hour Meter: 7376					AS Hour Meter:					
Time: 9:30 AM					Time: 9:31 AM					
Temp Control (F°): 748					System Pressure: (PSI)					
Dilution Temp (F°): 735										
High Limit Temp (F°): 736					AS Well ID		Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):					AS Well ID		Initial		Final	
Total Flow-Recorder: 100					AS-1					
Total Vacuum: ("Hg /"H ₂ O) 5 Hg					AS-2					
Recirc Valve (% open):					AS-3					
Dilution Valve (% open): 20%					AS-4					
					AS-5					
Closed manual dilution valve to 10% OPEN					AS-6					
					AS-7					
					AS-8					
					AS-9					
					AS-10					
					AS-11					
					AS-12					
OXIDIZER VAPOR MONITORING					AS-13					
Vapor Collected for Lab? No					AS-14					
Effluent PID (ppm):					AS-15					
Post-Dilution INF PID (ppm):					AS-16					
Influent PID (ppm):					AS-17					
PID Model:					Cal Gas:		AS-18			
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19		
AS-19		Initial Final		Initial Final		Initial Final		AS-20		
MW-1					CONTROLLER SET POINTS					
MW-2					Gas Train/Process Temp (F°):					
VE-1					Auto Dilution (F°):					
VE-2					High Temp (F°):					
VE-3					UTILITY READING					
VE-4					Natural Gas (ft ³):					
					Propane (% full):					
					Electricity (kWh):					

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 7/10/2017		Page: 1 of 1		
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 3:00pm				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 5:00 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? Yes Running on Arrival					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		7694.5				AS Hour Meter:			
Time:		3:45 PM				Time:			
Temp Control (F°):		743				System Pressure: (PSI)			
Dilution Temp (F°):		735							
High Limit Temp (F°):		735				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):		50				AS Well ID		Initial	
Total Flow-Recorder:		100				AS-1		Final	
Total Vacuum: ("Hg /"H ₂ O)		5 Hg				AS-2		Initial	
Recirc Valve (% open):						AS-3		Final	
Dilution Valve (% open):		10%				AS-4		Initial	
						AS-5		Final	
						AS-6		Initial	
						AS-7		Final	
						AS-8		Initial	
						AS-9		Final	
						AS-10		Initial	
						AS-11		Final	
						AS-12		Initial	
						AS-13		Final	
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?							AS-14		Initial
Effluent PID (ppm):							AS-15		Final
Post-Dilution INF PID (ppm):							AS-16		Initial
Influent PID (ppm):							AS-17		Final
PID Model:				Cal Gas:		AS-18		Initial	
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19	
AS-19		Initial		Final		Initial		Final	
MW-1								CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1								Auto Dilution (F°):	
VE-2				Open				High Temp (F°):	
VE-3								UTILITY READING	
VE-4								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 7/27/2017		Page: 1 of 1		
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 5:40 PM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 7:50 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? Yes Running on Arrival					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		8104.4		8106.2		AS Hour Meter:			
Time:		5:40 PM		7:30 PM		Time:			
Temp Control (F°):		767		757		System Pressure: (PSI)			
Dilution Temp (F°):		725		717					
High Limit Temp (F°):		725		717		AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):		62		62		AS Well ID		Flow (cfm)	
Total Flow-Recorder:						AS-1		Initial Final	
Total Vacuum: ("Hg /"H ₂ O)		6" Hg		6" Hg		AS-2		Initial Final	
Recirc Valve (% open):						AS-3		Initial Final	
Dilution Valve (% open):		Closed		Closed		AS-4		Initial Final	
						AS-5		Initial Final	
						AS-6		Initial Final	
						AS-7		Initial Final	
						AS-8		Initial Final	
						AS-9		Initial Final	
						AS-10		Initial Final	
						AS-11		Initial Final	
						AS-12		Initial Final	
						AS-13		Initial Final	
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?						AS-14		Initial Final	
Effluent PID (ppm):						AS-15		Initial Final	
Post-Dilution INF PID (ppm):						AS-16		Initial Final	
Influent PID (ppm):						AS-17		Initial Final	
PID Model:				Cal Gas:		AS-18		Initial Final	
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19	
AS-19		Initial Final		Initial Final		Initial Final		AS-20	
MW-1								CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1								Auto Dilution (F°):	
VE-2				Open				High Temp (F°):	
VE-3								UTILITY READING	
VE-4								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION											
CLIENT: CIRCLE K STORES INC					DATE: 8/2/2017		Page: 1 of 1				
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes						
SITE: 6006 West Clearwater					TIME ON-SITE: 1:00 PM						
LOCATION: Kennewick, Washington					TIME OFF-SITE: 2:00 PM						
EQUIPMENT DETAIL											
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM						
VE Operational? Yes Running on Arrival					AS Operational? None						
Fault Indicator: None					Fault Indicator:						
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final			
VE Hour Meter:		8244				AS Hour Meter:					
Time:		1:15 PM				Time:					
Temp Control (F°):		770				System Pressure: (PSI)					
Dilution Temp (F°):		730									
High Limit Temp (F°):		730				AS Well ID		Pressure (psi)			
Total Flow-Manifold (cfm):		51				AS Well ID		Flow (cfm)			
Total Flow-Recorder:						Initial		Final			
Total Vacuum: ("Hg /"H ₂ O)		5" Hg				AS-1					
Recirc Valve (% open):						AS-2					
Dilution Valve (% open):		Closed				AS-3					
						AS-4					
						AS-5					
Vapor Sampled Influent and Effluent						AS-6					
						AS-7					
						AS-8					
						AS-9					
						AS-10					
						AS-11					
						AS-12					
OXIDIZER VAPOR MONITORING					AS-13						
Vapor Collected for Lab?		Yes				AS-14					
Effluent PID (ppm):						AS-15					
Post-Dilution INF PID (ppm):						AS-16					
Influent PID (ppm):						AS-17					
PID Model:				Cal Gas:		AS-18					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19			
AS-19		Initial Final		Initial Final		Initial Final		AS-20			
MW-1										CONTROLLER SET POINTS	
MW-2										Gas Train/Process Temp (F°):	
VE-1										Auto Dilution (F°):	
VE-2				Open						High Temp (F°):	
VE-3										UTILITY READING	
VE-4										Natural Gas (ft ³):	
										Propane (% full):	
										Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION										
CLIENT: CIRCLE K STORES INC					DATE: 8/26/2017		Page: 1 of 1			
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater					TIME ON-SITE: 7:00 AM					
LOCATION: Kennewick, Washington					TIME OFF-SITE: 9:00 AM					
EQUIPMENT DETAIL										
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM					
VE Operational? Running then Shutdown					AS Operational? None					
Fault Indicator: None					Fault Indicator:					
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final		
VE Hour Meter: 8814.7					AS Hour Meter:					
Time: 8:00 AM					Time:					
Temp Control (F°): 740					System Pressure: (PSI)					
Dilution Temp (F°): 703										
High Limit Temp (F°): 702					AS Well ID		Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm): 50					AS-1		Initial		Final	
Total Flow-Recorder:					AS-1					
Total Vacuum: ("Hg /"H ₂ O) 5" Hg					AS-2					
Recirc Valve (% open):					AS-3					
Dilution Valve (% open): Closed					AS-4					
					AS-5					
Vapor Sampled Influent and Effluent					AS-6					
					AS-7					
					AS-8					
					AS-9					
					AS-10					
					AS-11					
					AS-12					
OXIDIZER VAPOR MONITORING					AS-13					
Vapor Collected for Lab? Yes					AS-14					
Effluent PID (ppm):					AS-15					
Post-Dilution INF PID (ppm):					AS-16					
Influent PID (ppm):					AS-17					
PID Model:					Cal Gas:		AS-18			
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)		AS-19		
AS-19		Initial Final		Initial Final		Initial Final		AS-20		
MW-1					CONTROLLER SET POINTS					
MW-2					Gas Train/Process Temp (F°):					
VE-1					Auto Dilution (F°):					
VE-2					High Temp (F°):					
VE-3					UTILITY READING					
VE-4					Natural Gas (ft ³):					
					Propane (% full):					
					Electricity (kWh):					

APPENDIX F

2017 VAPOR LABORATORY REPORTS



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1704328

May 03, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 3 sample(s) on 4/27/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 05/03/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1704328

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1704328-001	Influent	04/27/2017 8:32 AM	04/27/2017 4:40 PM
1704328-002	Post-Dilution Influent	04/27/2017 8:31 AM	04/27/2017 4:40 PM
1704328-003	Effluent	04/27/2017 8:30 AM	04/27/2017 4:40 PM

CLIENT: Blaes Environmental

Project: Circle K #6049

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 4/27/2017 8:32:00 AM

Project: Circle K #6049

Lab ID: 1704328-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R35869 Analyst: MW

Dichlorodifluoromethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Chloromethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Vinyl chloride	ND	0.0200		µg/L	1	4/28/2017 4:39:17 PM
Bromomethane	ND	0.100	Q	µg/L	1	4/28/2017 4:39:17 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Chloroethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Methylene chloride	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	4/28/2017 4:39:17 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Chloroform	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Carbon tetrachloride	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Benzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Dichlorobromomethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Dibromomethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Toluene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Dibromochloromethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	4/28/2017 4:39:17 PM
Chlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Ethylbenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
m,p-Xylene	12.4	2.00	D	µg/L	20	4/28/2017 3:07:30 PM
o-Xylene	8.59	2.00	D	µg/L	20	4/28/2017 3:07:30 PM
Styrene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
Isopropylbenzene	0.495	0.100		µg/L	1	4/28/2017 4:39:17 PM
Bromoform	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM



Client: Blaes Environmental

Collection Date: 4/27/2017 8:32:00 AM

Project: Circle K #6049

Lab ID: 1704328-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R35869 Analyst: MW

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
n-Propylbenzene	0.838	0.100		µg/L	1	4/28/2017 4:39:17 PM
Bromobenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,3,5-Trimethylbenzene	3.76	2.00	D	µg/L	20	4/28/2017 3:07:30 PM
2-Chlorotoluene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
4-Chlorotoluene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
tert-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	4/28/2017 4:39:17 PM
sec-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
n-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	4/28/2017 4:39:17 PM
1,2,4-Trimethylbenzene	8.10	2.00	D	µg/L	20	4/28/2017 3:07:30 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	4/28/2017 4:39:17 PM
Naphthalene	ND	0.100	Q	µg/L	1	4/28/2017 4:39:17 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	4/28/2017 4:39:17 PM
Surr: Dibromofluoromethane	108	61.1-128		%Rec	1	4/28/2017 4:39:17 PM
Surr: Toluene-d8	77.7	66-138		%Rec	1	4/28/2017 4:39:17 PM
Surr: 1-Bromo-4-fluorobenzene	116	64.7-128		%Rec	1	4/28/2017 4:39:17 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R35873 Analyst: MW

Gasoline	279	100	D	µg/L	20	4/28/2017 3:07:30 PM
Surr: 4-Bromofluorobenzene	97.1	65-135	D	%Rec	20	4/28/2017 3:07:30 PM
Surr: Toluene-d8	99.9	65-135	D	%Rec	20	4/28/2017 3:07:30 PM



Client: Blaes Environmental

Collection Date: 4/27/2017 8:31:00 AM

Project: Circle K #6049

Lab ID: 1704328-002

Matrix: Air

Client Sample ID: Post-Dilution Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R35869

Analyst: MW

Dichlorodifluoromethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Chloromethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Vinyl chloride	ND	0.0200		µg/L	1	4/28/2017 4:08:35 PM
Bromomethane	ND	0.100	Q	µg/L	1	4/28/2017 4:08:35 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Chloroethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Methylene chloride	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	4/28/2017 4:08:35 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Chloroform	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Carbon tetrachloride	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Benzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Dichlorobromomethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Dibromomethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Toluene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Dibromochloromethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	4/28/2017 4:08:35 PM
Chlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Ethylbenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
m,p-Xylene	1.94	0.100		µg/L	1	4/28/2017 4:08:35 PM
o-Xylene	1.36	0.100		µg/L	1	4/28/2017 4:08:35 PM
Styrene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Isopropylbenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Bromoform	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM



Client: Blaes Environmental

Collection Date: 4/27/2017 8:31:00 AM

Project: Circle K #6049

Lab ID: 1704328-002

Matrix: Air

Client Sample ID: Post-Dilution Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R35869 Analyst: MW

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
n-Propylbenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
Bromobenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,3,5-Trimethylbenzene	0.450	0.100		µg/L	1	4/28/2017 4:08:35 PM
2-Chlorotoluene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
4-Chlorotoluene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
tert-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	4/28/2017 4:08:35 PM
sec-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
n-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	4/28/2017 4:08:35 PM
1,2,4-Trimethylbenzene	1.04	0.100		µg/L	1	4/28/2017 4:08:35 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	4/28/2017 4:08:35 PM
Naphthalene	ND	0.100	Q	µg/L	1	4/28/2017 4:08:35 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	4/28/2017 4:08:35 PM
Surr: Dibromofluoromethane	103	61.1-128		%Rec	1	4/28/2017 4:08:35 PM
Surr: Toluene-d8	93.2	66-138		%Rec	1	4/28/2017 4:08:35 PM
Surr: 1-Bromo-4-fluorobenzene	94.4	64.7-128		%Rec	1	4/28/2017 4:08:35 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R35873 Analyst: MW

Gasoline	36.1	5.00		µg/L	1	4/28/2017 4:08:35 PM
Surr: 4-Bromofluorobenzene	106	65-135		%Rec	1	4/28/2017 4:08:35 PM
Surr: Toluene-d8	101	65-135		%Rec	1	4/28/2017 4:08:35 PM



Client: Blaes Environmental

Collection Date: 4/27/2017 8:30:00 AM

Project: Circle K #6049

Lab ID: 1704328-003

Matrix: Air

Client Sample ID: Effluent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R35869

Analyst: MW

Dichlorodifluoromethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Chloromethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Vinyl chloride	ND	0.0200		µg/L	1	4/28/2017 1:35:51 PM
Bromomethane	ND	0.100	Q	µg/L	1	4/28/2017 1:35:51 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Chloroethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Methylene chloride	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	4/28/2017 1:35:51 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Chloroform	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Carbon tetrachloride	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Benzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Dichlorobromomethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Dibromomethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Toluene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Dibromochloromethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	4/28/2017 1:35:51 PM
Chlorobenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Ethylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
m,p-Xylene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
o-Xylene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Styrene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Isopropylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Bromoform	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM



Client: Blaes Environmental

Collection Date: 4/27/2017 8:30:00 AM

Project: Circle K #6049

Lab ID: 1704328-003

Matrix: Air

Client Sample ID: Effluent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R35869 Analyst: MW

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
n-Propylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Bromobenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
2-Chlorotoluene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
4-Chlorotoluene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
tert-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	4/28/2017 1:35:51 PM
sec-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
n-Butylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	4/28/2017 1:35:51 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	4/28/2017 1:35:51 PM
Naphthalene	ND	0.100	Q	µg/L	1	4/28/2017 1:35:51 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	4/28/2017 1:35:51 PM
Surr: Dibromofluoromethane	96.5	61.1-128		%Rec	1	4/28/2017 1:35:51 PM
Surr: Toluene-d8	103	66-138		%Rec	1	4/28/2017 1:35:51 PM
Surr: 1-Bromo-4-fluorobenzene	79.7	64.7-128		%Rec	1	4/28/2017 1:35:51 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R35873 Analyst: MW

Gasoline	ND	5.00		µg/L	1	4/28/2017 1:35:51 PM
Surr: 4-Bromofluorobenzene	89.4	65-135		%Rec	1	4/28/2017 1:35:51 PM
Surr: Toluene-d8	103	65-135		%Rec	1	4/28/2017 1:35:51 PM

Work Order: 1704328
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID LCS-R35873	SampType: LCS	Units: µg/L			Prep Date: 4/28/2017	RunNo: 35873					
Client ID: LCSW	Batch ID: R35873				Analysis Date: 4/28/2017	SeqNo: 687301					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	57.1	5.00	50.00	0	114	65	135				
Surr: 4-Bromofluorobenzene	2.51		2.500		101	65	135				
Surr: Toluene-d8	2.58		2.500		103	65	135				

Sample ID MB-R35873	SampType: MBLK	Units: µg/L			Prep Date: 4/28/2017	RunNo: 35873					
Client ID: MBLKW	Batch ID: R35873				Analysis Date: 4/28/2017	SeqNo: 687302					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	4.09	5.00									J
Surr: 4-Bromofluorobenzene	2.37		2.500		94.9	65	135				
Surr: Toluene-d8	2.50		2.500		99.9	65	135				

Sample ID 1704328-003AREP	SampType: REP	Units: µg/L			Prep Date: 4/28/2017	RunNo: 35873					
Client ID: Effluent	Batch ID: R35873				Analysis Date: 4/28/2017	SeqNo: 687298					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0	0	30	
Surr: 4-Bromofluorobenzene	2.36		2.500		94.5	65	135		0		
Surr: Toluene-d8	2.49		2.500		99.5	65	135		0		

Work Order: 1704328
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R35869	SampType:	LCS	Units:	µg/L	Prep Date:	4/28/2017	RunNo:	35869		
Client ID:	LCSW	Batch ID:	R35869	Analysis Date:	4/28/2017	SeqNo:	687182				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	1.81	0.100	2.000	0	90.5	38.8	143				
Chloromethane	2.11	0.100	2.000	0	105	42.5	131				
Vinyl chloride	1.92	0.0200	2.000	0	96.0	56.2	130				
Bromomethane	1.30	0.100	2.000	0	64.8	45.4	138				
Trichlorofluoromethane	1.97	0.100	2.000	0	98.4	64.7	129				
Chloroethane	1.95	0.100	2.000	0	97.5	62.5	123				
1,1-Dichloroethene	1.92	0.100	2.000	0	96.1	60.7	146				
Methylene chloride	1.85	0.100	2.000	0	92.6	60.3	135				
trans-1,2-Dichloroethene	1.89	0.100	2.000	0	94.5	71.3	129				
Methyl tert-butyl ether (MTBE)	1.70	0.100	2.000	0	84.9	59.3	138				
1,1-Dichloroethane	1.91	0.100	2.000	0	95.7	71.3	129				
2,2-Dichloropropane	2.58	0.200	2.000	0	129	37.8	132				
cis-1,2-Dichloroethene	1.90	0.100	2.000	0	94.8	67.5	127				
Chloroform	1.95	0.100	2.000	0	97.4	70.3	123				
1,1,1-Trichloroethane (TCA)	2.00	0.100	2.000	0	99.9	67.9	134				
1,1-Dichloropropene	2.03	0.100	2.000	0	102	72.1	133				
Carbon tetrachloride	2.20	0.100	2.000	0	110	64.4	133				
1,2-Dichloroethane (EDC)	2.32	0.100	2.000	0	116	65.8	126				
Benzene	2.04	0.100	2.000	0	102	67.1	132				
Trichloroethene (TCE)	1.86	0.100	2.000	0	92.9	71.9	130				
1,2-Dichloropropane	1.92	0.100	2.000	0	96.0	71.9	131				
Dichlorobromomethane	1.92	0.100	2.000	0	95.8	70	130				
Dibromomethane	1.93	0.100	2.000	0	96.3	74.2	125				
cis-1,3-Dichloropropene	1.96	0.100	2.000	0	97.9	62.8	135				
Toluene	1.86	0.100	2.000	0	92.8	73.6	127				
trans-1,3-Dichloropropene	1.95	0.100	2.000	0	97.4	58.1	138				
1,1,2-Trichloroethane	1.91	0.100	2.000	0	95.5	65.4	128				
1,3-Dichloropropane	1.89	0.100	2.000	0	94.5	71.9	131				
Tetrachloroethene (PCE)	1.94	0.100	2.000	0	97.2	52.4	140				
Dibromochloromethane	1.89	0.100	2.000	0	94.5	68.7	139				
1,2-Dibromoethane (EDB)	1.93	0.00100	2.000	0	96.3	71.2	129				



Work Order: 1704328
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R35869	SampType:	LCS	Units:	µg/L	Prep Date:	4/28/2017	RunNo:	35869
Client ID:	LCSW	Batch ID:	R35869			Analysis Date:	4/28/2017	SeqNo:	687182

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	1.95	0.100	2.000	0	97.4	77.2	122				
1,1,1,2-Tetrachloroethane	1.88	0.100	2.000	0	94.1	76.2	130				
Ethylbenzene	1.91	0.100	2.000	0	95.5	78	127				
m,p-Xylene	3.95	0.100	4.000	0	98.7	77.5	130				
o-Xylene	1.89	0.100	2.000	0	94.5	77.6	126				
Styrene	1.95	0.100	2.000	0	97.6	66.8	137				
Isopropylbenzene	1.80	0.100	2.000	0	89.9	75.9	133				
Bromoform	1.88	0.100	2.000	0	94.2	54.1	146				
1,1,2,2-Tetrachloroethane	1.99	0.100	2.000	0	99.5	68	134				
n-Propylbenzene	1.76	0.100	2.000	0	88.0	77.1	133				
Bromobenzene	1.93	0.100	2.000	0	96.3	71.1	131				
1,3,5-Trimethylbenzene	1.70	0.100	2.000	0	84.8	76.2	133				
2-Chlorotoluene	1.82	0.100	2.000	0	91.2	67.1	137				
4-Chlorotoluene	1.88	0.100	2.000	0	93.8	70.7	132				
tert-Butylbenzene	1.68	0.100	2.000	0	84.1	71.3	139				
1,2,3-Trichloropropane	1.87	0.100	2.000	0	93.7	70.8	132				
1,2,4-Trichlorobenzene	1.79	0.200	2.000	0	89.4	61.4	139				
sec-Butylbenzene	1.66	0.100	2.000	0	82.9	77.4	136				
4-Isopropyltoluene	1.74	0.100	2.000	0	86.8	78.1	131				
1,3-Dichlorobenzene	1.97	0.100	2.000	0	98.6	73.5	125				
1,4-Dichlorobenzene	2.03	0.100	2.000	0	102	71.4	125				
n-Butylbenzene	1.88	0.100	2.000	0	93.9	69.8	138				
1,2-Dichlorobenzene	2.03	0.100	2.000	0	101	74.2	123				
1,2-Dibromo-3-chloropropane	2.10	0.100	2.000	0	105	53.6	155				
1,2,4-Trimethylbenzene	1.72	0.100	2.000	0	85.9	72.3	133				
Hexachlorobutadiene	1.96	0.400	2.000	0	98.1	60.9	141				
Naphthalene	1.82	0.100	2.000	0	91.0	58.2	140				
1,2,3-Trichlorobenzene	1.93	0.400	2.000	0	96.6	61.3	133				
Surr: Dibromofluoromethane	2.56		2.500		102	61.1	128				
Surr: Toluene-d8	2.52		2.500		101	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.47		2.500		99.0	64.7	128				

Work Order: 1704328
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R35869	SampType:	LCS	Units:	µg/L	Prep Date:	4/28/2017	RunNo:	35869			
Client ID:	LCSW	Batch ID:	R35869			Analysis Date:	4/28/2017	SeqNo:	687182			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	MB-R35869	SampType:	MBLK	Units:	µg/L	Prep Date:	4/28/2017	RunNo:	35869			
Client ID:	MBLKW	Batch ID:	R35869			Analysis Date:	4/28/2017	SeqNo:	687183			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100										
Chloromethane	ND	0.100										
Vinyl chloride	ND	0.0200										
Bromomethane	ND	0.100										Q
Trichlorofluoromethane	ND	0.100										
Chloroethane	ND	0.100										
1,1-Dichloroethene	ND	0.100										
Methylene chloride	ND	0.100										
trans-1,2-Dichloroethene	ND	0.100										
Methyl tert-butyl ether (MTBE)	ND	0.100										
1,1-Dichloroethane	ND	0.100										
2,2-Dichloropropane	ND	0.200										
cis-1,2-Dichloroethene	ND	0.100										
Chloroform	ND	0.100										
1,1,1-Trichloroethane (TCA)	ND	0.100										
1,1-Dichloropropene	ND	0.100										
Carbon tetrachloride	ND	0.100										
1,2-Dichloroethane (EDC)	ND	0.100										
Benzene	ND	0.100										
Trichloroethene (TCE)	ND	0.100										
1,2-Dichloropropane	ND	0.100										
Dichlorobromomethane	ND	0.100										
Dibromomethane	ND	0.100										
cis-1,3-Dichloropropene	ND	0.100										
Toluene	ND	0.100										



Date: 5/3/2017

Work Order: 1704328
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-R35869	SampType:	MBLK	Units:	µg/L	Prep Date:	4/28/2017	RunNo:	35869		
Client ID:	MBLKW	Batch ID:	R35869			Analysis Date:	4/28/2017	SeqNo:	687183		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									

Work Order: 1704328
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R35869	SampType: MBLK	Units: µg/L	Prep Date: 4/28/2017	RunNo: 35869							
Client ID: MBLKW	Batch ID: R35869		Analysis Date: 4/28/2017	SeqNo: 687183							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									Q
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.54		2.500		101	61.1	128				
Surr: Toluene-d8	2.49		2.500		99.8	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.16		2.500		86.3	64.7	128				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID 1704328-003AREP	SampType: REP	Units: µg/L	Prep Date: 4/28/2017	RunNo: 35869							
Client ID: Effluent	Batch ID: R35869		Analysis Date: 4/28/2017	SeqNo: 687179							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	Q
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.100						0	0	30	

Work Order: 1704328
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1704328-003AREP	SampType: REP	Units: µg/L	Prep Date: 4/28/2017	RunNo: 35869
Client ID: Effluent	Batch ID: R35869		Analysis Date: 4/28/2017	SeqNo: 687179

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0	0	30	
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	ND	0.100						0	0	30	
o-Xylene	ND	0.100						0	0	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	ND	0.100						0	0	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	

Work Order: 1704328
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1704328-003AREP	SampType: REP	Units: µg/L	Prep Date: 4/28/2017	RunNo: 35869							
Client ID: Effluent	Batch ID: R35869		Analysis Date: 4/28/2017	SeqNo: 687179							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	ND	0.100						0	0	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	Q
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.48		2.500		99.1	61.1	128		0		
Surr: Toluene-d8	2.39		2.500		95.5	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.18		2.500		87.4	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **BLAES**
 Logged by: **Erica Silva**

Work Order Number: **1704328**
 Date Received: **4/27/2017 4:40:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 4/27/17 Page: 1 of 1

Project Name: GRCUE K #6049

Laboratory Project No (Internal): 1704328

Client: BUES ENVIRONMENTAL

Project No: 202-6049

Special Remarks:

Address: 45 E. MONTEZUM WAY

Collected by: D. BUES

City, State, zip: PHOENIX, ARIZONA 85012

Location: KENNEDY WY

Telephone: 602-828-0707

Report To (PM): DAN BUES

Sample Disposal: Return to client Disposal by lab (after 30 days)

Fax:

PM Email: D.BUES@SUNBELTENVIRONMENTAL.COM

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analysis											Comments											
				VOCs (EPA 8260 / 824)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)		Anions (IC)***	EDB (8011)									
1 INFLUENT	4/27/17	8:32	V	X																						
2 POST-DILUTION INFLUENT		8:31	V	X																						
3 EFFLUENT		8:30	V	X																						
4																										
5																										
6																										
7																										
8																										
9																										
10																										

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sn Sr Ti U V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Reinquished: [Signature] Date/Time: 4/27/17 4:39 pm
 Received: [Signature] Date/Time: 4/27 16:40
 Turn-around Time: Standard 3 Day 2 Day Next Day Same Day (specify)



Blaes Environmental

Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1706048

June 09, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 3 sample(s) on 6/6/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director



Date: 06/09/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1706048

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1706048-001	INFLUENT	06/05/2017 11:02 AM	06/06/2017 9:48 AM
1706048-002	POST-DILUTION INFLUENT	06/05/2017 11:01 AM	06/06/2017 9:48 AM
1706048-003	EFFLUENT	06/05/2017 11:00 AM	06/06/2017 9:48 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 6/5/2017 11:02:00 AM

Project: Circle K #6049

Lab ID: 1706048-001

Matrix: Air

Client Sample ID: INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36701

Analyst: MW

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Chloromethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/8/2017 4:24:34 PM
Bromomethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Chloroethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Methylene chloride	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/8/2017 4:24:34 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Chloroform	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Benzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Dibromomethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Toluene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/8/2017 4:24:34 PM
Chlorobenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Ethylbenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
m,p-Xylene	8.79	1.00	D	µg/L	10	6/8/2017 2:58:35 PM
o-Xylene	5.91	1.00	D	µg/L	10	6/8/2017 2:58:35 PM
Styrene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
Isopropylbenzene	0.380	0.100		µg/L	1	6/8/2017 4:24:34 PM
Bromoform	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM



Client: Blaes Environmental

Collection Date: 6/5/2017 11:02:00 AM

Project: Circle K #6049

Lab ID: 1706048-001

Matrix: Air

Client Sample ID: INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36701

Analyst: MW

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
n-Propylbenzene	0.512	0.100		µg/L	1	6/8/2017 4:24:34 PM
Bromobenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,3,5-Trimethylbenzene	3.81	0.100		µg/L	1	6/8/2017 4:24:34 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/8/2017 4:24:34 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2,4-Trimethylbenzene	4.31	1.00	D	µg/L	10	6/8/2017 2:58:35 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/8/2017 4:24:34 PM
Naphthalene	ND	0.100		µg/L	1	6/8/2017 4:24:34 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/8/2017 4:24:34 PM
Surr: Dibromofluoromethane	109	61.1-128		%Rec	1	6/8/2017 4:24:34 PM
Surr: Toluene-d8	92.4	66-138		%Rec	1	6/8/2017 4:24:34 PM
Surr: 1-Bromo-4-fluorobenzene	100	64.7-128		%Rec	1	6/8/2017 4:24:34 PM

Gasoline by NWTPH-Gx

Batch ID: R36702

Analyst: MW

Gasoline	221	50.0	D	µg/L	10	6/8/2017 2:58:35 PM
Surr: 4-Bromofluorobenzene	101	65-135	D	%Rec	10	6/8/2017 2:58:35 PM
Surr: Toluene-d8	99.7	65-135	D	%Rec	10	6/8/2017 2:58:35 PM



Client: Blaes Environmental

Collection Date: 6/5/2017 11:01:00 AM

Project: Circle K #6049

Lab ID: 1706048-002

Matrix: Air

Client Sample ID: POST-DILUTION INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36701

Analyst: MW

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Chloromethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/8/2017 2:29:59 PM
Bromomethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Chloroethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Methylene chloride	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/8/2017 2:29:59 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Chloroform	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Benzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Dibromomethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Toluene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/8/2017 2:29:59 PM
Chlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Ethylbenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
m,p-Xylene	1.30	0.100		µg/L	1	6/8/2017 2:29:59 PM
o-Xylene	0.866	0.100		µg/L	1	6/8/2017 2:29:59 PM
Styrene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Bromoform	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM



Client: Blaes Environmental

Collection Date: 6/5/2017 11:01:00 AM

Project: Circle K #6049

Lab ID: 1706048-002

Matrix: Air

Client Sample ID: POST-DILUTION INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36701

Analyst: MW

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
Bromobenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,3,5-Trimethylbenzene	0.415	0.100		µg/L	1	6/8/2017 2:29:59 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/8/2017 2:29:59 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2,4-Trimethylbenzene	0.576	0.100		µg/L	1	6/8/2017 2:29:59 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/8/2017 2:29:59 PM
Naphthalene	ND	0.100		µg/L	1	6/8/2017 2:29:59 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/8/2017 2:29:59 PM
Surr: Dibromofluoromethane	107	61.1-128		%Rec	1	6/8/2017 2:29:59 PM
Surr: Toluene-d8	89.9	66-138		%Rec	1	6/8/2017 2:29:59 PM
Surr: 1-Bromo-4-fluorobenzene	93.3	64.7-128		%Rec	1	6/8/2017 2:29:59 PM

Gasoline by NWTPH-Gx

Batch ID: R36702

Analyst: MW

Gasoline	32.4	5.00		µg/L	1	6/8/2017 2:29:59 PM
Surr: 4-Bromofluorobenzene	100	65-135		%Rec	1	6/8/2017 2:29:59 PM
Surr: Toluene-d8	100	65-135		%Rec	1	6/8/2017 2:29:59 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706048-003
Client Sample ID: EFFLUENT

Collection Date: 6/5/2017 11:00:00 AM

Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36701

Analyst: MW

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Chloromethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/8/2017 2:01:26 PM
Bromomethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Chloroethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Methylene chloride	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/8/2017 2:01:26 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Chloroform	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Benzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Dibromomethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Toluene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/8/2017 2:01:26 PM
Chlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Ethylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
m,p-Xylene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
o-Xylene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Styrene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Bromoform	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706048-003
Client Sample ID: EFFLUENT

Collection Date: 6/5/2017 11:00:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36701 Analyst: MW

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Bromobenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/8/2017 2:01:26 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/8/2017 2:01:26 PM
Naphthalene	ND	0.100		µg/L	1	6/8/2017 2:01:26 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/8/2017 2:01:26 PM
Surr: Dibromofluoromethane	107	61.1-128		%Rec	1	6/8/2017 2:01:26 PM
Surr: Toluene-d8	88.9	66-138		%Rec	1	6/8/2017 2:01:26 PM
Surr: 1-Bromo-4-fluorobenzene	88.5	64.7-128		%Rec	1	6/8/2017 2:01:26 PM

Gasoline by NWTPH-Gx

Batch ID: R36702 Analyst: MW

Gasoline	ND	5.00		µg/L	1	6/8/2017 2:01:26 PM
Surr: 4-Bromofluorobenzene	94.2	65-135		%Rec	1	6/8/2017 2:01:26 PM
Surr: Toluene-d8	104	65-135		%Rec	1	6/8/2017 2:01:26 PM

Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-R36702	SampType: LCS	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36702							
Client ID: LCSW	Batch ID: R36702	Analysis Date: 6/8/2017	SeqNo: 704525								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	55.4	5.00	50.00	0	111	65	135				
Surr: 4-Bromofluorobenzene	2.37		2.500		94.8	65	135				
Surr: Toluene-d8	2.56		2.500		102	65	135				

Sample ID: MB-R36702	SampType: MBLK	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36702							
Client ID: MBLKW	Batch ID: R36702	Analysis Date: 6/8/2017	SeqNo: 704526								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.30		2.500		92.0	65	135				
Surr: Toluene-d8	2.58		2.500		103	65	135				



Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-R36701	SampType: LCS	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701
Client ID: LCSW	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704501

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.28	0.100	2.000	0	114	38.8	143				
Chloromethane	1.84	0.100	2.000	0	92.1	42.5	131				
Vinyl chloride	1.99	0.0200	2.000	0	99.7	56.2	130				
Bromomethane	2.66	0.100	2.000	0	133	45.4	138				
Trichlorofluoromethane	2.06	0.100	2.000	0	103	64.7	129				
Chloroethane	2.06	0.100	2.000	0	103	62.5	123				
1,1-Dichloroethene	2.02	0.100	2.000	0	101	60.7	146				
Methylene chloride	2.08	0.100	2.000	0	104	60.3	135				
trans-1,2-Dichloroethene	2.17	0.100	2.000	0	108	71.3	129				
Methyl tert-butyl ether (MTBE)	2.12	0.100	2.000	0	106	59.3	138				
1,1-Dichloroethane	2.22	0.100	2.000	0	111	71.3	129				
2,2-Dichloropropane	2.78	0.200	2.000	0	139	37.8	132				S
cis-1,2-Dichloroethene	2.18	0.100	2.000	0	109	67.5	127				
Chloroform	2.13	0.100	2.000	0	106	70.3	123				
1,1,1-Trichloroethane (TCA)	2.07	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.15	0.100	2.000	0	107	72.1	133				
Carbon tetrachloride	1.87	0.100	2.000	0	93.7	64.4	133				
1,2-Dichloroethane	2.12	0.100	2.000	0	106	65.8	126				
Benzene	2.21	0.100	2.000	0	111	67.1	132				
Trichloroethene (TCE)	2.09	0.100	2.000	0	104	71.9	130				
1,2-Dichloropropane	1.85	0.100	2.000	0	92.7	71.9	131				
Dichlorobromomethane	1.80	0.100	2.000	0	89.9	70	130				
Dibromomethane	1.77	0.100	2.000	0	88.6	74.2	125				
cis-1,3-Dichloropropene	2.01	0.100	2.000	0	100	62.8	135				
Toluene	1.78	0.100	2.000	0	88.9	73.6	127				
trans-1,3-Dichloropropene	2.03	0.100	2.000	0	102	58.1	138				
1,1,2-Trichloroethane	1.70	0.100	2.000	0	85.2	65.4	128				
1,3-Dichloropropane	1.77	0.100	2.000	0	88.4	71.9	131				
Tetrachloroethene (PCE)	1.65	0.100	2.000	0	82.5	52.4	140				
Dibromochloromethane	1.83	0.100	2.000	0	91.3	68.7	139				
1,2-Dibromoethane (EDB)	1.69	0.00100	2.000	0	84.4	71.2	129				



Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-R36701	SampType: LCS	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701
Client ID: LCSW	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704501

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	1.98	0.100	2.000	0	98.8	77.2	122				
1,1,1,2-Tetrachloroethane	1.91	0.100	2.000	0	95.5	76.2	130				
Ethylbenzene	2.01	0.100	2.000	0	100	78	127				
m,p-Xylene	3.95	0.100	4.000	0	98.6	77.5	130				
o-Xylene	1.95	0.100	2.000	0	97.5	77.6	126				
Styrene	1.94	0.100	2.000	0	97.2	66.8	137				
Isopropylbenzene	1.94	0.100	2.000	0	96.8	75.9	133				
Bromoform	1.78	0.100	2.000	0	89.0	54.1	146				
1,1,1,2-Tetrachloroethane	1.97	0.100	2.000	0	98.3	68	134				
n-Propylbenzene	1.98	0.100	2.000	0	99.1	77.1	133				
Bromobenzene	1.80	0.100	2.000	0	89.8	71.1	131				
1,3,5-Trimethylbenzene	1.89	0.100	2.000	0	94.3	76.2	133				
2-Chlorotoluene	1.90	0.100	2.000	0	94.8	67.1	137				
4-Chlorotoluene	1.91	0.100	2.000	0	95.7	70.7	132				
tert-Butylbenzene	1.88	0.100	2.000	0	93.8	71.3	139				
1,2,3-Trichloropropane	1.83	0.100	2.000	0	91.3	70.8	132				
1,2,4-Trichlorobenzene	1.95	0.200	2.000	0	97.5	61.4	139				
sec-Butylbenzene	2.00	0.100	2.000	0	99.8	77.4	136				
4-Isopropyltoluene	2.03	0.100	2.000	0	101	78.1	131				
1,3-Dichlorobenzene	2.03	0.100	2.000	0	102	73.5	125				
1,4-Dichlorobenzene	2.02	0.100	2.000	0	101	71.4	125				
n-Butylbenzene	2.28	0.100	2.000	0	114	69.8	138				
1,2-Dichlorobenzene	2.02	0.100	2.000	0	101	74.2	123				
1,2-Dibromo-3-chloropropane	1.88	0.100	2.000	0	94.2	53.6	155				
1,2,4-Trimethylbenzene	1.90	0.100	2.000	0	94.9	72.3	133				
Hexachlorobutadiene	1.77	0.400	2.000	0	88.5	60.9	141				
Naphthalene	2.11	0.100	2.000	0	105	58.2	140				
1,2,3-Trichlorobenzene	1.87	0.400	2.000	0	93.6	61.3	133				
Surr: Dibromofluoromethane	2.74		2.500		110	61.1	128				
Surr: Toluene-d8	2.34		2.500		93.7	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.37		2.500		94.9	64.7	128				

Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-R36701	SampType: LCS	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701							
Client ID: LCSW	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704501							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID: MB-R36701	SampType: MBLK	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701							
Client ID: MBLKW	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704502							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									



Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: MB-R36701	SampType: MBLK	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701							
Client ID: MBLKW	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704502							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,1,2,2-Pentachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									

Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: MB-R36701	SampType: MBLK	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701							
Client ID: MBLKW	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704502							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.67		2.500		107	61.1	128				
Surr: Toluene-d8	2.25		2.500		90.0	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.14		2.500		85.4	64.7	128				

Sample ID: 1706029-002AREP	SampType: REP	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701							
Client ID: BATCH	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704494							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	



Date: 6/9/2017

Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1706029-002AREP	SampType: REP	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701
Client ID: BATCH	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704494

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0	0	30	
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	ND	0.100						0	0	30	
o-Xylene	ND	0.100						0	0	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	ND	0.100						0	0	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	

Work Order: 1706048
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1706029-002AREP	SampType: REP	Units: µg/L	Prep Date: 6/8/2017	RunNo: 36701							
Client ID: BATCH	Batch ID: R36701		Analysis Date: 6/8/2017	SeqNo: 704494							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	ND	0.100						0	0	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.71		2.500		108	61.1	128		0		
Surr: Toluene-d8	2.21		2.500		88.6	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.37		2.500		94.8	64.7	128		0		

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1706048**
 Date Received: **6/6/2017 9:48:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air Samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 4/6/17 Page: 1 of 1

Project Name: CIRCLE K #6049 Laboratory Project No (Internal): 1700048

Project No: 202-6049-10

Collected by: D. BYES

Location: 6049 KENNEDY HWY

Report To (PM): D. BYES

PM Email: dbyes@fremontanalytical.com

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: BYES ENVIRONMENTAL
Address: 45 E. MONTESSY WAY
City, State, Zip: PHOENIX, AZ 85012
Telephone: 602-725-0707
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analysis Parameters													Comments			
				YOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)				
1 INFILTRANT	4/5/17	11:00 AM	WATER	X																
2 POST-DILUTION INFILTRANT	4/5/17	11:01 AM	WATER	X																
3 EFFLUENT	4/5/17	11:00 AM	WATER	X																
4																				
5																				
6																				
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp Se Sr Sn Tl U V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Nitrate+Nitrite O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Reinquished x Date/Time 4/6/17 9:48 AM Received Date/Time 4/20/17 09:48
 Reinquished x Date/Time 4/6/17 9:48 AM Received Date/Time 4/20/17 09:48
 Turn-around Time: Standard 3 Day 2 Day Next Day Same Day (specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1706242

June 27, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 3 sample(s) on 6/21/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 06/27/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1706242

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1706242-001	INFLUENT	06/20/2017 10:35 AM	06/21/2017 8:00 AM
1706242-002	POST-DILUTION INFLUENT	06/20/2017 10:34 AM	06/21/2017 8:00 AM
1706242-003	EFFLUENT	06/20/2017 10:33 AM	06/21/2017 8:00 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706242-001
Client Sample ID: INFLUENT

Collection Date: 6/20/2017 10:35:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Chloromethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/21/2017 4:22:57 PM
Bromomethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Chloroethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Methylene chloride	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/21/2017 4:22:57 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Chloroform	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Benzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Dibromomethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Toluene	0.0375	0.100	J	µg/L	1	6/21/2017 4:22:57 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/21/2017 4:22:57 PM
Chlorobenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Ethylbenzene	0.0600	0.100	J	µg/L	1	6/21/2017 4:22:57 PM
m,p-Xylene	17.7	1.00	D	µg/L	10	6/21/2017 5:20:34 PM
o-Xylene	12.6	1.00	D	µg/L	10	6/21/2017 5:20:34 PM
Styrene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
Isopropylbenzene	0.704	0.100		µg/L	1	6/21/2017 4:22:57 PM
Bromoform	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706242-001
Client Sample ID: INFLUENT

Collection Date: 6/20/2017 10:35:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
n-Propylbenzene	1.23	0.100		µg/L	1	6/21/2017 4:22:57 PM
Bromobenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,3,5-Trimethylbenzene	11.1	1.00	D	µg/L	10	6/21/2017 5:20:34 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/21/2017 4:22:57 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
4-Isopropyltoluene	0.248	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2,4-Trimethylbenzene	24.7	1.00	D	µg/L	10	6/21/2017 5:20:34 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/21/2017 4:22:57 PM
Naphthalene	0.103	0.100		µg/L	1	6/21/2017 4:22:57 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/21/2017 4:22:57 PM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/21/2017 4:22:57 PM
Surr: Toluene-d8	102	66-138		%Rec	1	6/21/2017 4:22:57 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	6/21/2017 4:22:57 PM

Gasoline by NWTPH-Gx

Batch ID: R36973 Analyst: NG

Gasoline	447	50.0	D	µg/L	10	6/21/2017 5:20:34 PM
Surr: 4-Bromofluorobenzene	114	65-135		%Rec	1	6/21/2017 4:22:57 PM
Surr: Toluene-d8	94.5	65-135		%Rec	1	6/21/2017 4:22:57 PM



Client: Blaes Environmental

Collection Date: 6/20/2017 10:34:00 AM

Project: Circle K #6049

Lab ID: 1706242-002

Matrix: Air

Client Sample ID: POST-DILUTION INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Chloromethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/21/2017 1:59:26 PM
Bromomethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Chloroethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Methylene chloride	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/21/2017 1:59:26 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Chloroform	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Benzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Dibromomethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Toluene	0.0380	0.100	J	µg/L	1	6/21/2017 1:59:26 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/21/2017 1:59:26 PM
Chlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Ethylbenzene	0.0434	0.100	J	µg/L	1	6/21/2017 1:59:26 PM
m,p-Xylene	9.98	1.00	D	µg/L	10	6/21/2017 3:25:25 PM
o-Xylene	7.03	1.00	D	µg/L	10	6/21/2017 3:25:25 PM
Styrene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
Isopropylbenzene	0.413	0.100		µg/L	1	6/21/2017 1:59:26 PM
Bromoform	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM



Client: Blaes Environmental

Collection Date: 6/20/2017 10:34:00 AM

Project: Circle K #6049

Lab ID: 1706242-002

Matrix: Air

Client Sample ID: POST-DILUTION INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
n-Propylbenzene	0.645	0.100		µg/L	1	6/21/2017 1:59:26 PM
Bromobenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,3,5-Trimethylbenzene	5.70	1.00	D	µg/L	10	6/21/2017 3:25:25 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
4-Chlorotoluene	0.744	0.100		µg/L	1	6/21/2017 1:59:26 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/21/2017 1:59:26 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
4-Isopropyltoluene	0.125	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/21/2017 1:59:26 PM
1,2,4-Trimethylbenzene	12.0	1.00	D	µg/L	10	6/21/2017 3:25:25 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/21/2017 1:59:26 PM
Naphthalene	0.0502	0.100	J	µg/L	1	6/21/2017 1:59:26 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/21/2017 1:59:26 PM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/21/2017 1:59:26 PM
Surr: Toluene-d8	117	66-138		%Rec	1	6/21/2017 1:59:26 PM
Surr: 1-Bromo-4-fluorobenzene	105	64.7-128		%Rec	1	6/21/2017 1:59:26 PM

Gasoline by NWTPH-Gx

Batch ID: R36973 Analyst: NG

Gasoline	234	50.0	D	µg/L	10	6/21/2017 3:25:25 PM
Surr: 4-Bromofluorobenzene	110	65-135		%Rec	1	6/21/2017 1:59:26 PM
Surr: Toluene-d8	103	65-135		%Rec	1	6/21/2017 1:59:26 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706242-003
Client Sample ID: EFFLUENT

Collection Date: 6/20/2017 10:33:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Chloromethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/21/2017 12:33:38 PM
Bromomethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Chloroethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Methylene chloride	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/21/2017 12:33:38 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Chloroform	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Benzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Dibromomethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Toluene	0.0395	0.100	J	µg/L	1	6/21/2017 12:33:38 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/21/2017 12:33:38 PM
Chlorobenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Ethylbenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
m,p-Xylene	0.0592	0.100	J	µg/L	1	6/21/2017 12:33:38 PM
o-Xylene	0.0381	0.100	J	µg/L	1	6/21/2017 12:33:38 PM
Styrene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
Bromoform	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706242-003
Client Sample ID: EFFLUENT

Collection Date: 6/20/2017 10:33:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
n-Propylbenzene	0.0245	0.100	J	µg/L	1	6/21/2017 12:33:38 PM
Bromobenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,3,5-Trimethylbenzene	0.0938	0.100	J	µg/L	1	6/21/2017 12:33:38 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/21/2017 12:33:38 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2,4-Trimethylbenzene	0.114	0.100		µg/L	1	6/21/2017 12:33:38 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/21/2017 12:33:38 PM
Naphthalene	ND	0.100		µg/L	1	6/21/2017 12:33:38 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/21/2017 12:33:38 PM
Surr: Dibromofluoromethane	101	61.1-128		%Rec	1	6/21/2017 12:33:38 PM
Surr: Toluene-d8	116	66-138		%Rec	1	6/21/2017 12:33:38 PM
Surr: 1-Bromo-4-fluorobenzene	94.3	64.7-128		%Rec	1	6/21/2017 12:33:38 PM

Gasoline by NWTPH-Gx

Batch ID: R36973 Analyst: NG

Gasoline	ND	5.00		µg/L	1	6/21/2017 12:33:38 PM
Surr: 4-Bromofluorobenzene	97.1	65-135		%Rec	1	6/21/2017 12:33:38 PM
Surr: Toluene-d8	112	65-135		%Rec	1	6/21/2017 12:33:38 PM

Work Order: 1706242
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID	MB-R36973	SampType:	MBLK	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36973		
Client ID:	MBLKW	Batch ID:	R36973			Analysis Date:	6/21/2017	SeqNo:	709978		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.37		2.500		94.8	65	135				
Surr: Toluene-d8	2.80		2.500		112	65	135				

Sample ID	1706242-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36973		
Client ID:	EFFLUENT	Batch ID:	R36973			Analysis Date:	6/21/2017	SeqNo:	709968		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0	0	30	
Surr: 4-Bromofluorobenzene	2.40		2.500		95.8	65	135		0		
Surr: Toluene-d8	2.75		2.500		110	65	135		0		

Sample ID	LCS-R36973	SampType:	LCS	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36973		
Client ID:	LCSW	Batch ID:	R36973			Analysis Date:	6/21/2017	SeqNo:	709977		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	55.6	5.00	50.00	0	111	65	135				
Surr: 4-Bromofluorobenzene	2.64		2.500		105	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Work Order: 1706242
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R36972	SampType: MBLK	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: MBLKW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709962							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									



Date: 6/27/2017

Work Order: 1706242
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R36972	SampType: MBLK	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: MBLKW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709962							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.53		2.500		101	61.1	128				
Surr: Toluene-d8	2.93		2.500		117	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.29		2.500		91.6	64.7	128				



Date: 6/27/2017

Work Order: 1706242
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R36972	SampType: MBLK	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: MBLKW	Batch ID: R36972	Analysis Date: 6/21/2017	SeqNo: 709962								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID 1706242-003AREP	SampType: REP	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: EFFLUENT	Batch ID: R36972	Analysis Date: 6/21/2017	SeqNo: 709952								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0406	0.100						0.03952	2.62	30	J

Work Order: 1706242
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706242-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36972
Client ID:	EFFLUENT	Batch ID:	R36972			Analysis Date:	6/21/2017	SeqNo:	709952

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	0.0550	0.100						0.05918	7.29	30	J
o-Xylene	0.0351	0.100						0.03808	8.23	30	J
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0239	0.100						0.02450	2.28	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.0927	0.100						0.09381	1.16	30	J
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.110	0.100						0.1137	2.93	30	

Work Order: 1706242
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1706242-003AREP	SampType: REP	Units: µg/L				Prep Date: 6/21/2017	RunNo: 36972				
Client ID: EFFLUENT	Batch ID: R36972					Analysis Date: 6/21/2017	SeqNo: 709952				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.50		2.500		100	61.1	128		0		
Surr: Toluene-d8	2.91		2.500		116	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.32		2.500		92.9	64.7	128		0		

Sample ID LCS-R36972	SampType: LCS	Units: µg/L				Prep Date: 6/21/2017	RunNo: 36972				
Client ID: LCSW	Batch ID: R36972					Analysis Date: 6/21/2017	SeqNo: 709961				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.23	0.100	2.000	0	112	38.8	143				
Chloromethane	2.23	0.100	2.000	0	111	42.5	131				
Vinyl chloride	2.16	0.0200	2.000	0	108	56.2	130				
Bromomethane	2.61	0.100	2.000	0	130	45.4	138				
Trichlorofluoromethane	2.20	0.100	2.000	0	110	64.7	129				
Chloroethane	2.10	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	2.12	0.100	2.000	0	106	60.7	146				
Methylene chloride	2.03	0.100	2.000	0	101	60.3	135				
trans-1,2-Dichloroethene	2.04	0.100	2.000	0	102	71.3	129				
Methyl tert-butyl ether (MTBE)	1.98	0.100	2.000	0	99.2	59.3	138				
1,1-Dichloroethane	1.94	0.100	2.000	0	96.8	71.3	129				
2,2-Dichloropropane	2.31	0.200	2.000	0	115	37.8	132				
cis-1,2-Dichloroethene	2.04	0.100	2.000	0	102	67.5	127				
Chloroform	2.04	0.100	2.000	0	102	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.14	0.100	2.000	0	107	72.1	133				
Carbon tetrachloride	2.07	0.100	2.000	0	104	64.4	133				
1,2-Dichloroethane	2.04	0.100	2.000	0	102	65.8	126				
Benzene	2.05	0.100	2.000	0	103	67.1	132				

Work Order: 1706242
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R36972	SampType:	LCS	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36972
Client ID:	LCSW	Batch ID:	R36972			Analysis Date:	6/21/2017	SeqNo:	709961

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	2.04	0.100	2.000	0	102	71.9	130				
1,2-Dichloropropane	2.09	0.100	2.000	0	105	71.9	131				
Dichlorobromomethane	2.35	0.100	2.000	0	118	70	130				
Dibromomethane	2.25	0.100	2.000	0	112	74.2	125				
cis-1,3-Dichloropropene	2.39	0.100	2.000	0	120	62.8	135				
Toluene	2.01	0.100	2.000	0	100	73.6	127				
trans-1,3-Dichloropropene	2.08	0.100	2.000	0	104	58.1	138				
1,1,2-Trichloroethane	2.07	0.100	2.000	0	104	65.4	128				
1,3-Dichloropropane	2.03	0.100	2.000	0	102	71.9	131				
Tetrachloroethene (PCE)	2.11	0.100	2.000	0	106	52.4	140				
Dibromochloromethane	2.14	0.100	2.000	0	107	68.7	139				
1,2-Dibromoethane (EDB)	2.05	0.00100	2.000	0	103	71.2	129				
Chlorobenzene	2.03	0.100	2.000	0	102	77.2	122				
1,1,1,2-Tetrachloroethane	2.01	0.100	2.000	0	101	76.2	130				
Ethylbenzene	2.05	0.100	2.000	0	103	78	127				
m,p-Xylene	4.14	0.100	4.000	0	103	77.5	130				
o-Xylene	2.08	0.100	2.000	0	104	77.6	126				
Styrene	2.03	0.100	2.000	0	102	66.8	137				
Isopropylbenzene	2.06	0.100	2.000	0	103	75.9	133				
Bromoform	2.08	0.100	2.000	0	104	54.1	146				
1,1,2,2-Tetrachloroethane	2.22	0.100	2.000	0	111	68	134				
n-Propylbenzene	2.13	0.100	2.000	0	107	77.1	133				
Bromobenzene	2.08	0.100	2.000	0	104	71.1	131				
1,3,5-Trimethylbenzene	2.08	0.100	2.000	0	104	76.2	133				
2-Chlorotoluene	2.10	0.100	2.000	0	105	67.1	137				
4-Chlorotoluene	2.08	0.100	2.000	0	104	70.7	132				
tert-Butylbenzene	2.09	0.100	2.000	0	105	71.3	139				
1,2,3-Trichloropropane	2.16	0.100	2.000	0	108	70.8	132				
1,2,4-Trichlorobenzene	2.02	0.200	2.000	0	101	61.4	139				
sec-Butylbenzene	2.26	0.100	2.000	0	113	77.4	136				
4-Isopropyltoluene	2.20	0.100	2.000	0	110	78.1	131				

Work Order: 1706242
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R36972	SampType:	LCS	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36972		
Client ID:	LCSW	Batch ID:	R36972			Analysis Date:	6/21/2017	SeqNo:	709961		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3-Dichlorobenzene	2.09	0.100	2.000	0	105	73.5	125				
1,4-Dichlorobenzene	2.07	0.100	2.000	0	103	71.4	125				
n-Butylbenzene	2.12	0.100	2.000	0	106	69.8	138				
1,2-Dichlorobenzene	2.10	0.100	2.000	0	105	74.2	123				
1,2-Dibromo-3-chloropropane	2.26	0.100	2.000	0	113	53.6	155				
1,2,4-Trimethylbenzene	2.10	0.100	2.000	0	105	72.3	133				
Hexachlorobutadiene	2.18	0.400	2.000	0	109	60.9	141				
Naphthalene	1.98	0.100	2.000	0	99.2	58.2	140				
1,2,3-Trichlorobenzene	2.06	0.400	2.000	0	103	61.3	133				
Surr: Dibromofluoromethane	2.59		2.500		104	61.1	128				
Surr: Toluene-d8	2.55		2.500		102	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.67		2.500		107	64.7	128				

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1706242**
 Date Received: **6/21/2017 8:00:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1706243

June 28, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 3 sample(s) on 6/21/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 06/28/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1706243

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1706243-001	INFLUENT	06/20/2017 12:50 PM	06/21/2017 8:00 AM
1706243-002	POST-DILUTION INFLUENT	06/20/2017 12:49 PM	06/21/2017 8:00 AM
1706243-003	EFFLUENT	06/20/2017 12:48 PM	06/21/2017 8:00 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706243-001
Client Sample ID: INFLUENT

Collection Date: 6/20/2017 12:50:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

Dichlorodifluoromethane	0.0549	0.100	JQ	µg/L	1	6/21/2017 5:49:26 PM
Chloromethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/21/2017 5:49:26 PM
Bromomethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Chloroethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Methylene chloride	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/21/2017 5:49:26 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Chloroform	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Benzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Dibromomethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Toluene	0.0434	0.100	J	µg/L	1	6/21/2017 5:49:26 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/21/2017 5:49:26 PM
Chlorobenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Ethylbenzene	0.125	0.100		µg/L	1	6/21/2017 5:49:26 PM
m,p-Xylene	43.6	1.00	D	µg/L	10	6/21/2017 4:51:44 PM
o-Xylene	33.0	1.00	D	µg/L	10	6/21/2017 4:51:44 PM
Styrene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
Isopropylbenzene	2.33	0.100		µg/L	1	6/21/2017 5:49:26 PM
Bromoform	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706243-001
Client Sample ID: INFLUENT

Collection Date: 6/20/2017 12:50:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
n-Propylbenzene	3.14	0.100		µg/L	1	6/21/2017 5:49:26 PM
Bromobenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,3,5-Trimethylbenzene	24.9	1.00	D	µg/L	10	6/21/2017 4:51:44 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
tert-Butylbenzene	0.0821	0.100	J	µg/L	1	6/21/2017 5:49:26 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/21/2017 5:49:26 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
4-Isopropyltoluene	0.531	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/21/2017 5:49:26 PM
1,2,4-Trimethylbenzene	43.6	5.00	D	µg/L	50	6/21/2017 6:18:08 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/21/2017 5:49:26 PM
Naphthalene	0.0881	0.100	J	µg/L	1	6/21/2017 5:49:26 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/21/2017 5:49:26 PM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/21/2017 5:49:26 PM
Surr: Toluene-d8	104	66-138		%Rec	1	6/21/2017 5:49:26 PM
Surr: 1-Bromo-4-fluorobenzene	112	64.7-128		%Rec	1	6/21/2017 5:49:26 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R36973 Analyst: NG

Gasoline	1,030	50.0	D	µg/L	10	6/21/2017 4:51:44 PM
Surr: 4-Bromofluorobenzene	120	65-135		%Rec	1	6/21/2017 5:49:26 PM
Surr: Toluene-d8	92.2	65-135		%Rec	1	6/21/2017 5:49:26 PM



Client: Blaes Environmental

Collection Date: 6/20/2017 12:49:00 PM

Project: Circle K #6049

Lab ID: 1706243-002

Matrix: Air

Client Sample ID: POST-DILUTION INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Chloromethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/21/2017 2:28:07 PM
Bromomethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Chloroethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Methylene chloride	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/21/2017 2:28:07 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Chloroform	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Benzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Dibromomethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Toluene	0.0402	0.100	J	µg/L	1	6/21/2017 2:28:07 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/21/2017 2:28:07 PM
Chlorobenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Ethylbenzene	0.0616	0.100	J	µg/L	1	6/21/2017 2:28:07 PM
m,p-Xylene	19.4	1.00	D	µg/L	10	6/21/2017 3:54:12 PM
o-Xylene	14.7	1.00	D	µg/L	10	6/21/2017 3:54:12 PM
Styrene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
Isopropylbenzene	1.09	0.100		µg/L	1	6/21/2017 2:28:07 PM
Bromoform	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM



Client: Blaes Environmental

Collection Date: 6/20/2017 12:49:00 PM

Project: Circle K #6049

Lab ID: 1706243-002

Matrix: Air

Client Sample ID: POST-DILUTION INFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
n-Propylbenzene	1.45	0.100		µg/L	1	6/21/2017 2:28:07 PM
Bromobenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,3,5-Trimethylbenzene	11.9	1.00	D	µg/L	10	6/21/2017 3:54:12 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/21/2017 2:28:07 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
4-Isopropyltoluene	0.270	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/21/2017 2:28:07 PM
1,2,4-Trimethylbenzene	22.6	1.00	D	µg/L	10	6/21/2017 3:54:12 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/21/2017 2:28:07 PM
Naphthalene	0.0684	0.100	J	µg/L	1	6/21/2017 2:28:07 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/21/2017 2:28:07 PM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/21/2017 2:28:07 PM
Surr: Toluene-d8	116	66-138		%Rec	1	6/21/2017 2:28:07 PM
Surr: 1-Bromo-4-fluorobenzene	111	64.7-128		%Rec	1	6/21/2017 2:28:07 PM

Gasoline by NWTPH-Gx

Batch ID: R36973 Analyst: NG

Gasoline	489	50.0	D	µg/L	10	6/21/2017 3:54:12 PM
Surr: 4-Bromofluorobenzene	115	65-135		%Rec	1	6/21/2017 2:28:07 PM
Surr: Toluene-d8	104	65-135		%Rec	1	6/21/2017 2:28:07 PM



Client: Blaes Environmental

Collection Date: 6/20/2017 12:48:00 PM

Project: Circle K #6049

Lab ID: 1706243-003

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Chloromethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/21/2017 1:30:51 PM
Bromomethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Chloroethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Methylene chloride	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/21/2017 1:30:51 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Chloroform	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Benzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Dibromomethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Toluene	0.0407	0.100	J	µg/L	1	6/21/2017 1:30:51 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/21/2017 1:30:51 PM
Chlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Ethylbenzene	0.0141	0.100	J	µg/L	1	6/21/2017 1:30:51 PM
m,p-Xylene	0.472	0.100		µg/L	1	6/21/2017 1:30:51 PM
o-Xylene	0.330	0.100		µg/L	1	6/21/2017 1:30:51 PM
Styrene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
Isopropylbenzene	0.0916	0.100	J	µg/L	1	6/21/2017 1:30:51 PM
Bromoform	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1706243-003
Client Sample ID: EFFLUENT

Collection Date: 6/20/2017 12:48:00 PM
Matrix: Air

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36972 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
n-Propylbenzene	0.0561	0.100	J	µg/L	1	6/21/2017 1:30:51 PM
Bromobenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,3,5-Trimethylbenzene	0.378	0.100		µg/L	1	6/21/2017 1:30:51 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/21/2017 1:30:51 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
4-Isopropyltoluene	0.0293	0.100	J	µg/L	1	6/21/2017 1:30:51 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2,4-Trimethylbenzene	0.970	0.100		µg/L	1	6/21/2017 1:30:51 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/21/2017 1:30:51 PM
Naphthalene	ND	0.100		µg/L	1	6/21/2017 1:30:51 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/21/2017 1:30:51 PM
Surr: Dibromofluoromethane	101	61.1-128		%Rec	1	6/21/2017 1:30:51 PM
Surr: Toluene-d8	116	66-138		%Rec	1	6/21/2017 1:30:51 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	64.7-128		%Rec	1	6/21/2017 1:30:51 PM

Gasoline by NWTPH-Gx

Batch ID: R36973 Analyst: NG

Gasoline	15.2	5.00		µg/L	1	6/21/2017 1:30:51 PM
Surr: 4-Bromofluorobenzene	101	65-135		%Rec	1	6/21/2017 1:30:51 PM
Surr: Toluene-d8	110	65-135		%Rec	1	6/21/2017 1:30:51 PM

Work Order: 1706243
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID	MB-R36973	SampType:	MBLK	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36973		
Client ID:	MBLKW	Batch ID:	R36973			Analysis Date:	6/21/2017	SeqNo:	709978		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.37		2.500		94.8	65	135				
Surr: Toluene-d8	2.80		2.500		112	65	135				

Sample ID	1706242-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36973		
Client ID:	BATCH	Batch ID:	R36973			Analysis Date:	6/21/2017	SeqNo:	709968		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0	0	30	
Surr: 4-Bromofluorobenzene	2.40		2.500		95.8	65	135		0		
Surr: Toluene-d8	2.75		2.500		110	65	135		0		

Sample ID	LCS-R36973	SampType:	LCS	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36973		
Client ID:	LCSW	Batch ID:	R36973			Analysis Date:	6/21/2017	SeqNo:	709977		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	55.6	5.00	50.00	0	111	65	135				
Surr: 4-Bromofluorobenzene	2.64		2.500		105	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Work Order: 1706243
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R36972	SampType: MBLK	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972
Client ID: MBLKW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709962

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									



Work Order: 1706243
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R36972	SampType: MBLK	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: MBLKW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709962							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.53		2.500		101	61.1	128				
Surr: Toluene-d8	2.93		2.500		117	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.29		2.500		91.6	64.7	128				



Date: 6/28/2017

Work Order: 1706243
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R36972	SampType: MBLK	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: MBLKW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709962							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID 1706242-003AREP	SampType: REP	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: BATCH	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709952							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0406	0.100						0.03952	2.62	30	J

Work Order: 1706243
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706242-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36972
Client ID:	BATCH	Batch ID:	R36972			Analysis Date:	6/21/2017	SeqNo:	709952

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	0.0550	0.100						0.05918	7.29	30	J
o-Xylene	0.0351	0.100						0.03808	8.23	30	J
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0239	0.100						0.02450	2.28	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.0927	0.100						0.09381	1.16	30	J
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.110	0.100						0.1137	2.93	30	

Work Order: 1706243
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1706242-003AREP	SampType: REP	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: BATCH	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709952							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.50		2.500		100	61.1	128		0		
Surr: Toluene-d8	2.91		2.500		116	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.32		2.500		92.9	64.7	128		0		

Sample ID LCS-R36972	SampType: LCS	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972							
Client ID: LCSW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709961							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.23	0.100	2.000	0	112	38.8	143				
Chloromethane	2.23	0.100	2.000	0	111	42.5	131				
Vinyl chloride	2.16	0.0200	2.000	0	108	56.2	130				
Bromomethane	2.61	0.100	2.000	0	130	45.4	138				
Trichlorofluoromethane	2.20	0.100	2.000	0	110	64.7	129				
Chloroethane	2.10	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	2.12	0.100	2.000	0	106	60.7	146				
Methylene chloride	2.03	0.100	2.000	0	101	60.3	135				
trans-1,2-Dichloroethene	2.04	0.100	2.000	0	102	71.3	129				
Methyl tert-butyl ether (MTBE)	1.98	0.100	2.000	0	99.2	59.3	138				
1,1-Dichloroethane	1.94	0.100	2.000	0	96.8	71.3	129				
2,2-Dichloropropane	2.31	0.200	2.000	0	115	37.8	132				
cis-1,2-Dichloroethene	2.04	0.100	2.000	0	102	67.5	127				
Chloroform	2.04	0.100	2.000	0	102	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.14	0.100	2.000	0	107	72.1	133				
Carbon tetrachloride	2.07	0.100	2.000	0	104	64.4	133				
1,2-Dichloroethane	2.04	0.100	2.000	0	102	65.8	126				
Benzene	2.05	0.100	2.000	0	103	67.1	132				

Work Order: 1706243
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R36972	SampType:	LCS	Units:	µg/L	Prep Date:	6/21/2017	RunNo:	36972
Client ID:	LCSW	Batch ID:	R36972			Analysis Date:	6/21/2017	SeqNo:	709961

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	2.04	0.100	2.000	0	102	71.9	130				
1,2-Dichloropropane	2.09	0.100	2.000	0	105	71.9	131				
Dichlorobromomethane	2.35	0.100	2.000	0	118	70	130				
Dibromomethane	2.25	0.100	2.000	0	112	74.2	125				
cis-1,3-Dichloropropene	2.39	0.100	2.000	0	120	62.8	135				
Toluene	2.01	0.100	2.000	0	100	73.6	127				
trans-1,3-Dichloropropene	2.08	0.100	2.000	0	104	58.1	138				
1,1,2-Trichloroethane	2.07	0.100	2.000	0	104	65.4	128				
1,3-Dichloropropane	2.03	0.100	2.000	0	102	71.9	131				
Tetrachloroethene (PCE)	2.11	0.100	2.000	0	106	52.4	140				
Dibromochloromethane	2.14	0.100	2.000	0	107	68.7	139				
1,2-Dibromoethane (EDB)	2.05	0.00100	2.000	0	103	71.2	129				
Chlorobenzene	2.03	0.100	2.000	0	102	77.2	122				
1,1,1,2-Tetrachloroethane	2.01	0.100	2.000	0	101	76.2	130				
Ethylbenzene	2.05	0.100	2.000	0	103	78	127				
m,p-Xylene	4.14	0.100	4.000	0	103	77.5	130				
o-Xylene	2.08	0.100	2.000	0	104	77.6	126				
Styrene	2.03	0.100	2.000	0	102	66.8	137				
Isopropylbenzene	2.06	0.100	2.000	0	103	75.9	133				
Bromoform	2.08	0.100	2.000	0	104	54.1	146				
1,1,2,2-Tetrachloroethane	2.22	0.100	2.000	0	111	68	134				
n-Propylbenzene	2.13	0.100	2.000	0	107	77.1	133				
Bromobenzene	2.08	0.100	2.000	0	104	71.1	131				
1,3,5-Trimethylbenzene	2.08	0.100	2.000	0	104	76.2	133				
2-Chlorotoluene	2.10	0.100	2.000	0	105	67.1	137				
4-Chlorotoluene	2.08	0.100	2.000	0	104	70.7	132				
tert-Butylbenzene	2.09	0.100	2.000	0	105	71.3	139				
1,2,3-Trichloropropane	2.16	0.100	2.000	0	108	70.8	132				
1,2,4-Trichlorobenzene	2.02	0.200	2.000	0	101	61.4	139				
sec-Butylbenzene	2.26	0.100	2.000	0	113	77.4	136				
4-Isopropyltoluene	2.20	0.100	2.000	0	110	78.1	131				

Work Order: 1706243
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-R36972	SampType: LCS	Units: µg/L	Prep Date: 6/21/2017	RunNo: 36972
Client ID: LCSW	Batch ID: R36972		Analysis Date: 6/21/2017	SeqNo: 709961

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	2.09	0.100	2.000	0	105	73.5	125				
1,4-Dichlorobenzene	2.07	0.100	2.000	0	103	71.4	125				
n-Butylbenzene	2.12	0.100	2.000	0	106	69.8	138				
1,2-Dichlorobenzene	2.10	0.100	2.000	0	105	74.2	123				
1,2-Dibromo-3-chloropropane	2.26	0.100	2.000	0	113	53.6	155				
1,2,4-Trimethylbenzene	2.10	0.100	2.000	0	105	72.3	133				
Hexachlorobutadiene	2.18	0.400	2.000	0	109	60.9	141				
Naphthalene	1.98	0.100	2.000	0	99.2	58.2	140				
1,2,3-Trichlorobenzene	2.06	0.400	2.000	0	103	61.3	133				
Surr: Dibromofluoromethane	2.59		2.500		104	61.1	128				
Surr: Toluene-d8	2.55		2.500		102	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.67		2.500		107	64.7	128				

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1706243**
 Date Received: **6/21/2017 8:00:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 4/21/17 Page: 1 of 1

Project Name: CIRCLE #6049

Project No: 202-6049

Collected by: D BUSES

Location: KENNEWICK, WA

Report To (PM): DAN BUSES

PM Email: DBUSES@BUSSENVIRONMENTAL.COM

Laboratory Project No (Internal): 17040243

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: BUSES ENVIRONMENTAL
Address: 45 E. MONTESSA WAY
City, State, Zip: POTHANIX, AZ 85012
Telephone: 602-728-0707
Fax: 602-728-0708

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 INFILTRANT	4/20/17	12:50	MIL		X	X											12:50 SAMPLE TIME
2 POST-DILUTION INFILTRANT	4/20/17	12:49	MIL		X	X											12:49
3 EFFLUENT	4/20/17	12:48	MIL		X	X											12:48
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Turn-around Time:

Standard

3 Day

2 Day

Next Day

Same Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	4/21/17 8:00 AM	x	4/21/17 8:00



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1707073

July 18, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 3 sample(s) on 7/11/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 07/18/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1707073

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1707073-001	INFLUENT	07/10/2017 3:47 PM	07/11/2017 11:04 AM
1707073-002	Post-Dilution INFLUENT	07/10/2017 3:46 PM	07/11/2017 11:04 AM
1707073-003	EFFLUENT	07/10/2017 3:45 PM	07/11/2017 11:04 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1707073-001
Client Sample ID: INFLUENT

Collection Date: 7/10/2017 3:47:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37437 Analyst: NG

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	7/13/2017 5:05:24 PM
Chloromethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Vinyl chloride	ND	0.0200		µg/L	1	7/13/2017 5:05:24 PM
Bromomethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Chloroethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Methylene chloride	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
2,2-Dichloropropane	ND	0.200	Q	µg/L	1	7/13/2017 5:05:24 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Chloroform	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Carbon tetrachloride	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Benzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Dichlorobromomethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Dibromomethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Toluene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Dibromochloromethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	7/13/2017 5:05:24 PM
Chlorobenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Ethylbenzene	0.0348	0.100	J	µg/L	1	7/13/2017 5:05:24 PM
m,p-Xylene	4.55	0.100	B	µg/L	1	7/13/2017 5:05:24 PM
o-Xylene	3.42	0.100		µg/L	1	7/13/2017 5:05:24 PM
Styrene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
Isopropylbenzene	0.239	0.100		µg/L	1	7/13/2017 5:05:24 PM
Bromoform	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1707073-001
Client Sample ID: INFLUENT

Collection Date: 7/10/2017 3:47:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37437 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
n-Propylbenzene	0.411	0.100		µg/L	1	7/13/2017 5:05:24 PM
Bromobenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,3,5-Trimethylbenzene	3.91	0.100		µg/L	1	7/13/2017 5:05:24 PM
2-Chlorotoluene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
4-Chlorotoluene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
tert-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2,4-Trichlorobenzene	0.0279	0.200	J	µg/L	1	7/13/2017 5:05:24 PM
sec-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
4-Isopropyltoluene	0.116	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
n-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	7/13/2017 5:05:24 PM
1,2,4-Trimethylbenzene	7.82	1.00	D	µg/L	10	7/13/2017 2:41:52 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	7/13/2017 5:05:24 PM
Naphthalene	0.0591	0.100	J	µg/L	1	7/13/2017 5:05:24 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	7/13/2017 5:05:24 PM
Surr: Dibromofluoromethane	93.2	61.1 - 128		%Rec	1	7/13/2017 5:05:24 PM
Surr: Toluene-d8	101	66 - 138		%Rec	1	7/13/2017 5:05:24 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.7 - 128		%Rec	1	7/13/2017 5:05:24 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R37438 Analyst: NG

Gasoline	173	5.00		µg/L	1	7/13/2017 5:05:24 PM
Surr: 4-Bromofluorobenzene	107	65 - 135		%Rec	1	7/13/2017 5:05:24 PM
Surr: Toluene-d8	97.0	65 - 135		%Rec	1	7/13/2017 5:05:24 PM



Client: Blaes Environmental

Collection Date: 7/10/2017 3:46:00 PM

Project: Circle K #6049

Lab ID: 1707073-002

Matrix: Air

Client Sample ID: Post-Dilution INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37437 Analyst: NG

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	7/13/2017 4:36:43 PM
Chloromethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Vinyl chloride	ND	0.0200		µg/L	1	7/13/2017 4:36:43 PM
Bromomethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Chloroethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Methylene chloride	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
2,2-Dichloropropane	ND	0.200	Q	µg/L	1	7/13/2017 4:36:43 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Chloroform	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Carbon tetrachloride	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Benzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Dichlorobromomethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Dibromomethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Toluene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Dibromochloromethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	7/13/2017 4:36:43 PM
Chlorobenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Ethylbenzene	0.0301	0.100	J	µg/L	1	7/13/2017 4:36:43 PM
m,p-Xylene	3.63	0.100	B	µg/L	1	7/13/2017 4:36:43 PM
o-Xylene	2.77	0.100		µg/L	1	7/13/2017 4:36:43 PM
Styrene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
Isopropylbenzene	0.192	0.100		µg/L	1	7/13/2017 4:36:43 PM
Bromoform	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM



Client: Blaes Environmental

Collection Date: 7/10/2017 3:46:00 PM

Project: Circle K #6049

Lab ID: 1707073-002

Matrix: Air

Client Sample ID: Post-Dilution INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37437 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
n-Propylbenzene	0.336	0.100		µg/L	1	7/13/2017 4:36:43 PM
Bromobenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,3,5-Trimethylbenzene	3.28	0.100		µg/L	1	7/13/2017 4:36:43 PM
2-Chlorotoluene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
4-Chlorotoluene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
tert-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2,4-Trichlorobenzene	0.0396	0.200	J	µg/L	1	7/13/2017 4:36:43 PM
sec-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
4-Isopropyltoluene	0.108	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
n-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2,4-Trimethylbenzene	4.44	1.00	D	µg/L	10	7/13/2017 2:13:11 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	7/13/2017 4:36:43 PM
Naphthalene	0.101	0.100		µg/L	1	7/13/2017 4:36:43 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	7/13/2017 4:36:43 PM
Surr: Dibromofluoromethane	92.1	61.1 - 128		%Rec	1	7/13/2017 4:36:43 PM
Surr: Toluene-d8	101	66 - 138		%Rec	1	7/13/2017 4:36:43 PM
Surr: 1-Bromo-4-fluorobenzene	104	64.7 - 128		%Rec	1	7/13/2017 4:36:43 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R37438 Analyst: NG

Gasoline	146	5.00		µg/L	1	7/13/2017 4:36:43 PM
Surr: 4-Bromofluorobenzene	108	65 - 135		%Rec	1	7/13/2017 4:36:43 PM
Surr: Toluene-d8	98.5	65 - 135		%Rec	1	7/13/2017 4:36:43 PM



Client: Blaes Environmental

Collection Date: 7/10/2017 3:45:00 PM

Project: Circle K #6049

Lab ID: 1707073-003

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37437 Analyst: NG

Dichlorodifluoromethane	ND	0.100	Q	µg/L	1	7/13/2017 1:16:03 PM
Chloromethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Vinyl chloride	ND	0.0200		µg/L	1	7/13/2017 1:16:03 PM
Bromomethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Chloroethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Methylene chloride	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
2,2-Dichloropropane	ND	0.200	Q	µg/L	1	7/13/2017 1:16:03 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Chloroform	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Carbon tetrachloride	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Benzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Dichlorobromomethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Dibromomethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Toluene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Dibromochloromethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	7/13/2017 1:16:03 PM
Chlorobenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Ethylbenzene	0.0389	0.100	J	µg/L	1	7/13/2017 1:16:03 PM
m,p-Xylene	0.234	0.100	B	µg/L	1	7/13/2017 1:16:03 PM
o-Xylene	0.107	0.100		µg/L	1	7/13/2017 1:16:03 PM
Styrene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Isopropylbenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Bromoform	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM



Client: Blaes Environmental

Collection Date: 7/10/2017 3:45:00 PM

Project: Circle K #6049

Lab ID: 1707073-003

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37437 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
n-Propylbenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
Bromobenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,3,5-Trimethylbenzene	0.127	0.100		µg/L	1	7/13/2017 1:16:03 PM
2-Chlorotoluene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
4-Chlorotoluene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
tert-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	7/13/2017 1:16:03 PM
sec-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
n-Butylbenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2,4-Trimethylbenzene	0.320	0.100		µg/L	1	7/13/2017 1:16:03 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	7/13/2017 1:16:03 PM
Naphthalene	ND	0.100		µg/L	1	7/13/2017 1:16:03 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	7/13/2017 1:16:03 PM
Surr: Dibromofluoromethane	86.1	61.1 - 128		%Rec	1	7/13/2017 1:16:03 PM
Surr: Toluene-d8	101	66 - 138		%Rec	1	7/13/2017 1:16:03 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	64.7 - 128		%Rec	1	7/13/2017 1:16:03 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R37438 Analyst: NG

Gasoline	9.89	5.00		µg/L	1	7/13/2017 1:16:03 PM
Surr: 4-Bromofluorobenzene	101	65 - 135		%Rec	1	7/13/2017 1:16:03 PM
Surr: Toluene-d8	102	65 - 135		%Rec	1	7/13/2017 1:16:03 PM

Work Order: 1707073
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID	MB-R37438	SampType:	MBLK	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37438		
Client ID:	MBLKW	Batch ID:	R37438			Analysis Date:	7/13/2017	SeqNo:	719425		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.45		2.500		98.1	65	135				
Surr: Toluene-d8	2.50		2.500		99.8	65	135				

Sample ID	1707073-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37438		
Client ID:	EFFLUENT	Batch ID:	R37438			Analysis Date:	7/13/2017	SeqNo:	719421		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	9.08	5.00						9.889	8.48	30	
Surr: 4-Bromofluorobenzene	2.55		2.500		102	65	135		0		
Surr: Toluene-d8	2.53		2.500		101	65	135		0		

Sample ID	LCS-R37438	SampType:	LCS	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37438		
Client ID:	LCSW	Batch ID:	R37438			Analysis Date:	7/13/2017	SeqNo:	719424		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	51.3	5.00	50.00	0	103	65	135				
Surr: 4-Bromofluorobenzene	2.65		2.500		106	65	135				
Surr: Toluene-d8	2.45		2.500		98.0	65	135				



Date: 7/18/2017

Work Order: 1707073
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-R37437	SampType: MBLK	Units: µg/L	Prep Date: 7/13/2017	RunNo: 37437
Client ID: MBLKW	Batch ID: R37437		Analysis Date: 7/13/2017	SeqNo: 719397

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100									Q
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									Q
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									

Work Order: 1707073
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-R37437	SampType:	MBLK	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37437
Client ID:	MBLKW	Batch ID:	R37437			Analysis Date:	7/13/2017	SeqNo:	719397

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	0.148	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.03		2.500		81.3	61.1	128				
Surr: Toluene-d8	2.48		2.500		99.2	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.38		2.500		95.3	64.7	128				

Work Order: 1707073
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-R37437	SampType:	MBLK	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37437		
Client ID:	MBLKW	Batch ID:	R37437			Analysis Date:	7/13/2017	SeqNo:	719397		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1707073-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37437		
Client ID:	EFFLUENT	Batch ID:	R37437			Analysis Date:	7/13/2017	SeqNo:	719393		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	Q
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	Q
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.100						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	

Work Order: 1707073
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1707073-003AREP	SampType:	REP	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37437		
Client ID:	EFFLUENT	Batch ID:	R37437	Analysis Date:	7/13/2017	SeqNo:	719393				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	0.100						0	0	30	
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00100						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0288	0.100						0.03892	30.0	30	J
m,p-Xylene	0.203	0.100						0.2342	14.4	30	B
o-Xylene	0.0981	0.100						0.1070	8.66	30	J
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.118	0.100						0.1274	7.61	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	

Work Order: 1707073
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1707073-003AREP	SampType: REP	Units: µg/L				Prep Date: 7/13/2017	RunNo: 37437				
Client ID: EFFLUENT	Batch ID: R37437					Analysis Date: 7/13/2017	SeqNo: 719393				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.297	0.100						0.3197	7.23	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.21		2.500		88.4	61.1	128		0		
Surr: Toluene-d8	2.53		2.500		101	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.46		2.500		98.3	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID LCS-R37437	SampType: LCS	Units: µg/L				Prep Date: 7/13/2017	RunNo: 37437				
Client ID: LCSW	Batch ID: R37437					Analysis Date: 7/13/2017	SeqNo: 719396				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	1.56	0.100	2.000	0	77.8	38.8	143				
Chloromethane	1.85	0.100	2.000	0	92.4	42.5	131				
Vinyl chloride	1.82	0.0200	2.000	0	91.2	56.2	130				
Bromomethane	1.81	0.100	2.000	0	90.7	45.4	138				
Trichlorofluoromethane	1.81	0.100	2.000	0	90.4	64.7	129				
Chloroethane	1.87	0.100	2.000	0	93.6	62.5	123				
1,1-Dichloroethene	1.86	0.100	2.000	0	93.1	60.7	146				
Methylene chloride	1.96	0.100	2.000	0	97.9	60.3	135				
trans-1,2-Dichloroethene	1.94	0.100	2.000	0	97.0	71.3	129				
Methyl tert-butyl ether (MTBE)	2.27	0.100	2.000	0	113	59.3	138				
1,1-Dichloroethane	1.97	0.100	2.000	0	98.6	71.3	129				
2,2-Dichloropropane	1.64	0.200	2.000	0	81.8	37.8	132				
cis-1,2-Dichloroethene	1.97	0.100	2.000	0	98.7	67.5	127				
Chloroform	1.95	0.100	2.000	0	97.4	70.3	123				
1,1,1-Trichloroethane (TCA)	1.90	0.100	2.000	0	95.0	67.9	134				
1,1-Dichloropropene	1.94	0.100	2.000	0	96.8	72.1	133				
Carbon tetrachloride	1.70	0.100	2.000	0	85.0	64.4	133				



Date: 7/18/2017

Work Order: 1707073
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R37437	SampType:	LCS	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37437
Client ID:	LCSW	Batch ID:	R37437			Analysis Date:	7/13/2017	SeqNo:	719396

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	2.07	0.100	2.000	0	103	65.8	126				
Benzene	2.01	0.100	2.000	0	101	67.1	132				
Trichloroethene (TCE)	2.00	0.100	2.000	0	100	71.9	130				
1,2-Dichloropropane	2.02	0.100	2.000	0	101	71.9	131				
Dichlorobromomethane	1.84	0.100	2.000	0	92.0	70	130				
Dibromomethane	2.00	0.100	2.000	0	99.9	74.2	125				
cis-1,3-Dichloropropene	1.98	0.100	2.000	0	98.8	62.8	135				
Toluene	2.06	0.100	2.000	0	103	73.6	127				
trans-1,3-Dichloropropene	1.93	0.100	2.000	0	96.4	58.1	138				
1,1,2-Trichloroethane	2.07	0.100	2.000	0	103	65.4	128				
1,3-Dichloropropane	2.08	0.100	2.000	0	104	71.9	131				
Tetrachloroethene (PCE)	2.01	0.100	2.000	0	100	52.4	140				
Dibromochloromethane	1.83	0.100	2.000	0	91.5	68.7	139				
1,2-Dibromoethane (EDB)	2.07	0.00100	2.000	0	104	71.2	129				
Chlorobenzene	2.03	0.100	2.000	0	102	77.2	122				
1,1,1,2-Tetrachloroethane	1.95	0.100	2.000	0	97.6	76.2	130				
Ethylbenzene	2.06	0.100	2.000	0	103	78	127				
m,p-Xylene	4.14	0.100	4.000	0	104	77.5	130				B
o-Xylene	2.07	0.100	2.000	0	103	77.6	126				
Styrene	2.06	0.100	2.000	0	103	66.8	137				
Isopropylbenzene	2.06	0.100	2.000	0	103	75.9	133				
Bromoform	1.77	0.100	2.000	0	88.7	54.1	146				
1,1,2,2-Tetrachloroethane	1.98	0.100	2.000	0	99.0	68	134				
n-Propylbenzene	2.06	0.100	2.000	0	103	77.1	133				
Bromobenzene	2.03	0.100	2.000	0	101	71.1	131				
1,3,5-Trimethylbenzene	2.06	0.100	2.000	0	103	76.2	133				
2-Chlorotoluene	2.04	0.100	2.000	0	102	67.1	137				
4-Chlorotoluene	2.06	0.100	2.000	0	103	70.7	132				
tert-Butylbenzene	2.04	0.100	2.000	0	102	71.3	139				
1,2,3-Trichloropropane	2.08	0.100	2.000	0	104	70.8	132				
1,2,4-Trichlorobenzene	2.03	0.200	2.000	0	102	61.4	139				

Work Order: 1707073
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R37437	SampType:	LCS	Units:	µg/L	Prep Date:	7/13/2017	RunNo:	37437		
Client ID:	LCSW	Batch ID:	R37437			Analysis Date:	7/13/2017	SeqNo:	719396		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	2.02	0.100	2.000	0	101	77.4	136				
4-Isopropyltoluene	1.98	0.100	2.000	0	99.2	78.1	131				
1,3-Dichlorobenzene	2.04	0.100	2.000	0	102	73.5	125				
1,4-Dichlorobenzene	2.04	0.100	2.000	0	102	71.4	125				
n-Butylbenzene	1.99	0.100	2.000	0	99.7	69.8	138				
1,2-Dichlorobenzene	2.07	0.100	2.000	0	104	74.2	123				
1,2-Dibromo-3-chloropropane	1.97	0.100	2.000	0	98.3	53.6	155				
1,2,4-Trimethylbenzene	2.09	0.100	2.000	0	105	72.3	133				
Hexachlorobutadiene	1.90	0.400	2.000	0	95.1	60.9	141				
Naphthalene	2.28	0.100	2.000	0	114	58.2	140				
1,2,3-Trichlorobenzene	2.07	0.400	2.000	0	103	61.3	133				
Surr: Dibromofluoromethane	2.43		2.500		97.3	61.1	128				
Surr: Toluene-d8	2.50		2.500		99.9	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.65		2.500		106	64.7	128				

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1707073**
 Date Received: **7/11/2017 11:04:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA

Air Samples

4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Air Chain of Custody Record & Laboratory Services Agreement

Date: 7/11/17 Page: 1 of 1

Laboratory Project No (Internal):

1707073

Special Remarks:

Client: BUTS ENVIRONMENTAL

Project No: 202-66049-10

Address: 45 E. MONROE WAY

Location: KENNESWICK, WA

City, State, Zip: PHOENIX, ARIZONA

Collected by: D. BYES

Telephone: 602-728-0707

Reports to (PM): DAN BYES

Fax: 602-728-0708

Email (PM): DByes@bluesenvironmental.com

Sample Name	Canister / Flow Reg. Serial #	Sample Date & Time	Sample Type (Matrix) *	Container Type **	Sample Volume	Fill Time	Flow Rate	Internal		Field Initial Sample Pressure ("Hg)	Field Final Sample Pressure ("Hg)	Analysis Requested	Receipt Date	Final Pressure ("Hg)
								Initial Execution Pressure (mmHg)	Final Execution Pressure ("Hg)					
1 INFLUENT	TRUCK BKG	7/10/17 3:47 pm	V	TRUCK BKG								NURPT GX		
2 POST-DILUTION INFLUENT		7/10/17 3:46 pm	V									8200 Vols FLOW		
3 EFFLUENT		7/10/17 3:45 pm	V											
4														
5														

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CVL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: [Signature] Date/Time: 7/11/17 11:04

Received: [Signature] Date/Time: 7/11/17 11:14

Turn-Around Time:

Standard

2 Day

3 Day

Next Day

Same Day (specify) _____



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1708038

August 08, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/3/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike C. Ridgeway".

Mike Ridgeway
Laboratory Director



Date: 08/08/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1708038

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1708038-001	INFLUENT	08/02/2017 1:17 PM	08/03/2017 7:49 AM
1708038-002	EFFLUENT	08/02/2017 1:16 PM	08/03/2017 7:49 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1708038-001
Client Sample ID: INFLUENT

Collection Date: 8/2/2017 1:17:00 PM

Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37823 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Chloromethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Vinyl chloride	ND	0.0200		µg/L	1	8/3/2017 4:22:24 PM
Bromomethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Chloroethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Methylene chloride	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	8/3/2017 4:22:24 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Chloroform	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Carbon tetrachloride	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Benzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/3/2017 4:22:24 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Dichlorobromomethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Dibromomethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Toluene	0.0861	0.100	J	µg/L	1	8/3/2017 4:22:24 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Dibromochloromethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,2-Dibromoethane (EDB)	ND	0.0250		µg/L	1	8/3/2017 4:22:24 PM
Chlorobenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Ethylbenzene	0.0363	0.100	J	µg/L	1	8/3/2017 4:22:24 PM
m,p-Xylene	0.586	0.100		µg/L	1	8/3/2017 4:22:24 PM
o-Xylene	0.369	0.100		µg/L	1	8/3/2017 4:22:24 PM
Styrene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
Isopropylbenzene	0.0459	0.100	J	µg/L	1	8/3/2017 4:22:24 PM
Bromoform	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1708038-001
Client Sample ID: INFLUENT

Collection Date: 8/2/2017 1:17:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37823 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100	Q	µg/L	1	8/3/2017 4:22:24 PM
n-Propylbenzene	0.0591	0.100	J	µg/L	1	8/3/2017 4:22:24 PM
Bromobenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,3,5-Trimethylbenzene	0.380	0.100		µg/L	1	8/3/2017 4:22:24 PM
2-Chlorotoluene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
4-Chlorotoluene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
tert-Butylbenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,2,3-Trichloropropane	ND	0.100	Q	µg/L	1	8/3/2017 4:22:24 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	8/3/2017 4:22:24 PM
sec-Butylbenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
4-Isopropyltoluene	0.106	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
n-Butylbenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/3/2017 4:22:24 PM
1,2,4-Trimethylbenzene	0.678	0.100		µg/L	1	8/3/2017 4:22:24 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	8/3/2017 4:22:24 PM
Naphthalene	ND	0.100	Q	µg/L	1	8/3/2017 4:22:24 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	8/3/2017 4:22:24 PM
Surr: Dibromofluoromethane	93.4	61.1 - 128		%Rec	1	8/3/2017 4:22:24 PM
Surr: Toluene-d8	97.2	66 - 138		%Rec	1	8/3/2017 4:22:24 PM
Surr: 1-Bromo-4-fluorobenzene	102	64.7 - 128		%Rec	1	8/3/2017 4:22:24 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R37824 Analyst: NG

Gasoline	27.6	5.00		µg/L	1	8/3/2017 4:22:24 PM
Surr: 4-Bromofluorobenzene	104	65 - 135		%Rec	1	8/3/2017 4:22:24 PM
Surr: Toluene-d8	98.4	65 - 135		%Rec	1	8/3/2017 4:22:24 PM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 1708038-002
Client Sample ID: EFFLUENT

Collection Date: 8/2/2017 1:16:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37823 Analyst: NG

Dichlorodifluoromethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Chloromethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Vinyl chloride	ND	0.0200		µg/L	1	8/3/2017 1:21:08 PM
Bromomethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Chloroethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Methylene chloride	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	8/3/2017 1:21:08 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Chloroform	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Carbon tetrachloride	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,2-Dichloroethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Benzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/3/2017 1:21:08 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Dichlorobromomethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Dibromomethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Toluene	0.101	0.100		µg/L	1	8/3/2017 1:21:08 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Dibromochloromethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,2-Dibromoethane (EDB)	ND	0.0250		µg/L	1	8/3/2017 1:21:08 PM
Chlorobenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Ethylbenzene	0.0323	0.100	J	µg/L	1	8/3/2017 1:21:08 PM
m,p-Xylene	0.161	0.100		µg/L	1	8/3/2017 1:21:08 PM
o-Xylene	0.105	0.100		µg/L	1	8/3/2017 1:21:08 PM
Styrene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
Isopropylbenzene	0.0302	0.100	J	µg/L	1	8/3/2017 1:21:08 PM
Bromoform	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM



Client: Blaes Environmental

Collection Date: 8/2/2017 1:16:00 PM

Project: Circle K #6049

Lab ID: 1708038-002

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: R37823 Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100	Q	µg/L	1	8/3/2017 1:21:08 PM
n-Propylbenzene	0.0377	0.100	J	µg/L	1	8/3/2017 1:21:08 PM
Bromobenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,3,5-Trimethylbenzene	0.166	0.100		µg/L	1	8/3/2017 1:21:08 PM
2-Chlorotoluene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
4-Chlorotoluene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
tert-Butylbenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,2,3-Trichloropropane	ND	0.100	Q	µg/L	1	8/3/2017 1:21:08 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	8/3/2017 1:21:08 PM
sec-Butylbenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
n-Butylbenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/3/2017 1:21:08 PM
1,2,4-Trimethylbenzene	0.296	0.100		µg/L	1	8/3/2017 1:21:08 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	8/3/2017 1:21:08 PM
Naphthalene	ND	0.100	Q	µg/L	1	8/3/2017 1:21:08 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	8/3/2017 1:21:08 PM
Surr: Dibromofluoromethane	99.4	61.1 - 128		%Rec	1	8/3/2017 1:21:08 PM
Surr: Toluene-d8	105	66 - 138		%Rec	1	8/3/2017 1:21:08 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	64.7 - 128		%Rec	1	8/3/2017 1:21:08 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Gasoline by NWTPH-Gx

Batch ID: R37824 Analyst: NG

Gasoline	10.4	5.00		µg/L	1	8/3/2017 1:21:08 PM
Surr: 4-Bromofluorobenzene	99.4	65 - 135		%Rec	1	8/3/2017 1:21:08 PM
Surr: Toluene-d8	97.6	65 - 135		%Rec	1	8/3/2017 1:21:08 PM

Work Order: 1708038
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID	LCS-R37824	SampType:	LCS	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37824		
Client ID:	LCSW	Batch ID:	R37824			Analysis Date:	8/3/2017	SeqNo:	727019		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	53.5	5.00	50.00	0	107	65	135				
Surr: 4-Bromofluorobenzene	2.61		2.500		104	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Sample ID	MB-R37824	SampType:	MBLK	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37824		
Client ID:	MBLKW	Batch ID:	R37824			Analysis Date:	8/3/2017	SeqNo:	727020		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.49		2.500		99.7	65	135				
Surr: Toluene-d8	2.46		2.500		98.2	65	135				

Sample ID	1708038-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37824		
Client ID:	EFFLUENT	Batch ID:	R37824			Analysis Date:	8/3/2017	SeqNo:	727016		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	10.3	5.00						10.41	0.763	30	
Surr: 4-Bromofluorobenzene	2.50		2.500		99.8	65	135		0		
Surr: Toluene-d8	2.43		2.500		97.4	65	135		0		



Work Order: 1708038
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-R37823	SampType: LCS	Units: µg/L	Prep Date: 8/3/2017	RunNo: 37823
Client ID: LCSW	Batch ID: R37823		Analysis Date: 8/3/2017	SeqNo: 726945

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.75	0.100	2.000	0	137	38.8	143				
Chloromethane	2.32	0.100	2.000	0	116	42.5	131				
Vinyl chloride	2.31	0.0200	2.000	0	116	56.2	130				
Bromomethane	2.73	0.100	2.000	0	137	45.4	138				
Trichlorofluoromethane	2.89	0.100	2.000	0	144	64.7	129				S
Chloroethane	2.23	0.100	2.000	0	112	62.5	123				
1,1-Dichloroethene	2.35	0.100	2.000	0	117	60.7	146				
Methylene chloride	2.12	0.100	2.000	0	106	60.3	135				
trans-1,2-Dichloroethene	2.21	0.100	2.000	0	110	71.3	129				
Methyl tert-butyl ether (MTBE)	1.91	0.100	2.000	0	95.6	59.3	138				
1,1-Dichloroethane	2.21	0.100	2.000	0	111	71.3	129				
2,2-Dichloropropane	2.14	0.200	2.000	0	107	37.8	132				
cis-1,2-Dichloroethene	2.15	0.100	2.000	0	107	67.5	127				
Chloroform	2.37	0.100	2.000	0	118	70.3	123				
1,1,1-Trichloroethane (TCA)	2.51	0.100	2.000	0	126	67.9	134				
1,1-Dichloropropene	2.20	0.100	2.000	0	110	72.1	133				
Carbon tetrachloride	2.49	0.100	2.000	0	125	64.4	133				
1,2-Dichloroethane	2.08	0.100	2.000	0	104	65.8	126				
Benzene	2.00	0.100	2.000	0	100	67.1	132				
Trichloroethene (TCE)	2.43	0.0500	2.000	0	122	71.9	130				
1,2-Dichloropropane	2.08	0.100	2.000	0	104	71.9	131				
Dichlorobromomethane	2.34	0.100	2.000	0	117	70	130				
Dibromomethane	2.07	0.100	2.000	0	104	74.2	125				
cis-1,3-Dichloropropene	2.24	0.100	2.000	0	112	62.8	135				
Toluene	2.11	0.100	2.000	0	106	73.6	127				
trans-1,3-Dichloropropene	2.19	0.100	2.000	0	110	58.1	138				
1,1,2-Trichloroethane	1.98	0.100	2.000	0	98.9	65.4	128				
1,3-Dichloropropane	1.94	0.100	2.000	0	97.2	71.9	131				
Tetrachloroethene (PCE)	2.34	0.100	2.000	0	117	52.4	140				
Dibromochloromethane	2.17	0.100	2.000	0	108	68.7	139				
1,2-Dibromoethane (EDB)	1.92	0.0250	2.000	0	96.0	71.2	129				



Work Order: 1708038
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R37823	SampType:	LCS	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37823		
Client ID:	LCSW	Batch ID:	R37823	Analysis Date:	8/3/2017	SeqNo:	726945				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	2.03	0.100	2.000	0	102	77.2	122				
1,1,1,2-Tetrachloroethane	2.17	0.100	2.000	0	108	76.2	130				
Ethylbenzene	2.14	0.100	2.000	0	107	78	127				
m,p-Xylene	4.14	0.100	4.000	0	104	77.5	130				
o-Xylene	2.02	0.100	2.000	0	101	77.6	126				
Styrene	1.98	0.100	2.000	0	99.1	66.8	137				
Isopropylbenzene	2.12	0.100	2.000	0	106	75.9	133				
Bromoform	2.02	0.100	2.000	0	101	54.1	146				
1,1,2,2-Tetrachloroethane	1.56	0.100	2.000	0	78.0	68	134				
n-Propylbenzene	2.14	0.100	2.000	0	107	77.1	133				
Bromobenzene	1.99	0.100	2.000	0	99.7	71.1	131				
1,3,5-Trimethylbenzene	2.11	0.100	2.000	0	105	76.2	133				
2-Chlorotoluene	2.08	0.100	2.000	0	104	67.1	137				
4-Chlorotoluene	2.07	0.100	2.000	0	104	70.7	132				
tert-Butylbenzene	2.05	0.100	2.000	0	103	71.3	139				
1,2,3-Trichloropropane	1.73	0.100	2.000	0	86.3	70.8	132				
1,2,4-Trichlorobenzene	1.93	0.200	2.000	0	96.7	61.4	139				
sec-Butylbenzene	2.05	0.100	2.000	0	103	77.4	136				
4-Isopropyltoluene	2.01	0.100	2.000	0	100	78.1	131				
1,3-Dichlorobenzene	2.13	0.100	2.000	0	106	73.5	125				
1,4-Dichlorobenzene	2.11	0.100	2.000	0	106	71.4	125				
n-Butylbenzene	2.20	0.100	2.000	0	110	69.8	138				
1,2-Dichlorobenzene	2.08	0.100	2.000	0	104	74.2	123				
1,2-Dibromo-3-chloropropane	1.92	0.100	2.000	0	96.2	53.6	155				
1,2,4-Trimethylbenzene	2.10	0.100	2.000	0	105	72.3	133				
Hexachlorobutadiene	2.26	0.400	2.000	0	113	60.9	141				
Naphthalene	1.79	0.100	2.000	0	89.3	58.2	140				
1,2,3-Trichlorobenzene	1.93	0.400	2.000	0	96.7	61.3	133				
Surr: Dibromofluoromethane	2.57		2.500		103	61.1	128				
Surr: Toluene-d8	2.62		2.500		105	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.59		2.500		103	64.7	128				

Work Order: 1708038
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-R37823	SampType:	LCS	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37823		
Client ID:	LCSW	Batch ID:	R37823			Analysis Date:	8/3/2017	SeqNo:	726945		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID	MB-R37823	SampType:	MBLK	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37823		
Client ID:	MBLKW	Batch ID:	R37823			Analysis Date:	8/3/2017	SeqNo:	726946		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									



Work Order: 1708038
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: MB-R37823	SampType: MBLK	Units: µg/L	Prep Date: 8/3/2017	RunNo: 37823
Client ID: MBLKW	Batch ID: R37823		Analysis Date: 8/3/2017	SeqNo: 726946

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0250									
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,1,2,2-Tetrachloroethane	ND	0.100									Q
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									Q
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									

Work Order: 1708038
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-R37823	SampType:	MBLK	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37823		
Client ID:	MBLKW	Batch ID:	R37823			Analysis Date:	8/3/2017	SeqNo:	726946		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									Q
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.51		2.500		101	61.1	128				
Surr: Toluene-d8	2.62		2.500		105	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.45		2.500		97.8	64.7	128				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1708038-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37823		
Client ID:	EFFLUENT	Batch ID:	R37823			Analysis Date:	8/3/2017	SeqNo:	726942		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	



Work Order: 1708038
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1708038-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/3/2017	RunNo: 37823
Client ID: EFFLUENT	Batch ID: R37823		Analysis Date: 8/3/2017	SeqNo: 726942

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Dichlorobromomethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0942	0.100						0.1015	7.41	30	J
trans-1,3-Dichloropropene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.0250						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0329	0.100						0.03227	2.05	30	J
m,p-Xylene	0.161	0.100						0.1608	0.407	30	
o-Xylene	0.110	0.100						0.1049	4.84	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	0.0295	0.100						0.03024	2.42	30	J
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	Q
n-Propylbenzene	0.0376	0.100						0.03766	0.189	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.167	0.100						0.1664	0.550	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	Q
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	

Work Order: 1708038
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1708038-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/3/2017	RunNo:	37823		
Client ID:	EFFLUENT	Batch ID:	R37823			Analysis Date:	8/3/2017	SeqNo:	726942		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.310	0.100						0.2963	4.51	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	Q
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.40		2.500		96.0	61.1	128		0		
Surr: Toluene-d8	2.41		2.500		96.3	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.44		2.500		97.8	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1708038**
 Date Received: **8/3/2017 7:49:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air Samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Air Chain of Custody Record & Laboratory Services Agreement

Laboratory Project No (Internal): **1708038**

Special Remarks:

1708038

Date: **8/3/17** Page: **1** of **1**

Project Name: **CIRCLE K #6049**

Project No: **802-6049-10**

Location: **KENNEWICK, WA**

Collected by: **D BATES**

Reports to (PM): **DAN BATES**

Email (PM): **DBates@BatesEnvironmental.com**

Client: **BATES ENVIRONMENTAL**

Address: **45 E. MONTROSS WAY**

City, State, Zip: **PHOENIX, AZ 85012**

Telephone: **602-728-0707**

Fax:

Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Sample Type (Matrix)	Container Type **	Sample Volume	Fill Time	Flow Rate	Internal		Field Final Sample Pressure ("Hg)	Analysis Requested	Receipt Date	Final Pressure ("Hg)
								Initial Evacuation Pressure (torr)	Field Initial Sample Pressure ("Hg)				
1 INFLUENT		8/2/17 11:15 PM	V	TRUCK							NURPH-COX 8260 WCI'S FULL W/		
2 EFFLUENT		8/2/17 1:16 PM	V	"							"		
3													
4													
5													

Turn-Around Time:

Standard

3 Day

2 Day

Next Day

Same Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: **[Signature]** Date/Time: **8/3/17 7:49 AM**

Received: **[Signature]** Date/Time: **08/03/17 7:49**



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1708318

August 30, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 1 sample(s) on 8/28/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 08/30/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1708318

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1708318-001	Influent	08/26/2017 8:00 AM	08/28/2017 8:33 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/26/2017 8:00:00 AM

Project: Circle K #6049

Lab ID: 1708318-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 18033

Analyst: NG

Dichlorodifluoromethane	ND	0.0109		µg/L	1	8/28/2017 5:20:37 PM
Chloromethane	ND	0.00466		µg/L	1	8/28/2017 5:20:37 PM
Vinyl chloride	ND	0.00817		µg/L	1	8/28/2017 5:20:37 PM
Bromomethane	ND	0.0118		µg/L	1	8/28/2017 5:20:37 PM
Trichlorofluoromethane (CFC-11)	ND	0.00474		µg/L	1	8/28/2017 5:20:37 PM
Chloroethane	ND	0.0101		µg/L	1	8/28/2017 5:20:37 PM
1,1-Dichloroethene	ND	0.00356		µg/L	1	8/28/2017 5:20:37 PM
Methylene chloride	0.0564	0.00356	J	µg/L	1	8/28/2017 5:20:37 PM
trans-1,2-Dichloroethene	ND	0.00992		µg/L	1	8/28/2017 5:20:37 PM
Methyl tert-butyl ether (MTBE)	ND	0.00571		µg/L	1	8/28/2017 5:20:37 PM
1,1-Dichloroethane	ND	0.00903		µg/L	1	8/28/2017 5:20:37 PM
2,2-Dichloropropane	ND	0.00275		µg/L	1	8/28/2017 5:20:37 PM
cis-1,2-Dichloroethene	ND	0.00790		µg/L	1	8/28/2017 5:20:37 PM
Chloroform	ND	0.0126		µg/L	1	8/28/2017 5:20:37 PM
1,1,1-Trichloroethane (TCA)	ND	0.00839		µg/L	1	8/28/2017 5:20:37 PM
1,1-Dichloropropene	ND	0.00385		µg/L	1	8/28/2017 5:20:37 PM
Carbon tetrachloride	ND	0.0534		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dichloroethane (EDC)	ND	0.00831		µg/L	1	8/28/2017 5:20:37 PM
Benzene	ND	0.00747		µg/L	1	8/28/2017 5:20:37 PM
Trichloroethene (TCE)	ND	0.00948		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dichloropropane	ND	0.00704		µg/L	1	8/28/2017 5:20:37 PM
Bromodichloromethane	ND	0.00609		µg/L	1	8/28/2017 5:20:37 PM
Dibromomethane	ND	0.00988		µg/L	1	8/28/2017 5:20:37 PM
cis-1,3-Dichloropropene	ND	0.0102		µg/L	1	8/28/2017 5:20:37 PM
Toluene	0.0320	0.00912	J	µg/L	1	8/28/2017 5:20:37 PM
trans-1,3-Dichloropropylene	ND	0.00996		µg/L	1	8/28/2017 5:20:37 PM
1,1,2-Trichloroethane	ND	0.00735		µg/L	1	8/28/2017 5:20:37 PM
1,3-Dichloropropane	ND	0.00784		µg/L	1	8/28/2017 5:20:37 PM
Tetrachloroethene (PCE)	ND	0.00851		µg/L	1	8/28/2017 5:20:37 PM
Dibromochloromethane	ND	0.00528		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dibromoethane (EDB)	ND	0.00861		µg/L	1	8/28/2017 5:20:37 PM
Chlorobenzene	ND	0.00702		µg/L	1	8/28/2017 5:20:37 PM
1,1,1,2-Tetrachloroethane	ND	0.00540		µg/L	1	8/28/2017 5:20:37 PM
Ethylbenzene	0.0372	0.00868	J	µg/L	1	8/28/2017 5:20:37 PM
m,p-Xylene	2.29	0.00616		µg/L	1	8/28/2017 5:20:37 PM
o-Xylene	1.35	0.00688		µg/L	1	8/28/2017 5:20:37 PM
Styrene	ND	0.00511		µg/L	1	8/28/2017 5:20:37 PM
Isopropylbenzene	0.0669	0.00588	J	µg/L	1	8/28/2017 5:20:37 PM
Bromoform	ND	0.00751		µg/L	1	8/28/2017 5:20:37 PM



Client: Blaes Environmental

Collection Date: 8/26/2017 8:00:00 AM

Project: Circle K #6049

Lab ID: 1708318-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 18033

Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.00769		µg/L	1	8/28/2017 5:20:37 PM
n-Propylbenzene	0.105	0.00619		µg/L	1	8/28/2017 5:20:37 PM
Bromobenzene	ND	0.00460		µg/L	1	8/28/2017 5:20:37 PM
1,3,5-Trimethylbenzene	2.17	0.00614		µg/L	1	8/28/2017 5:20:37 PM
2-Chlorotoluene	ND	0.00729		µg/L	1	8/28/2017 5:20:37 PM
4-Chlorotoluene	ND	0.00773		µg/L	1	8/28/2017 5:20:37 PM
tert-Butylbenzene	ND	0.00607		µg/L	1	8/28/2017 5:20:37 PM
1,2,3-Trichloropropane	ND	0.00713		µg/L	1	8/28/2017 5:20:37 PM
1,2,4-Trichlorobenzene	ND	0.00630		µg/L	1	8/28/2017 5:20:37 PM
sec-Butylbenzene	ND	0.00822		µg/L	1	8/28/2017 5:20:37 PM
4-Isopropyltoluene	ND	0.00798		µg/L	1	8/28/2017 5:20:37 PM
1,3-Dichlorobenzene	ND	0.00697		µg/L	1	8/28/2017 5:20:37 PM
1,4-Dichlorobenzene	ND	0.00379		µg/L	1	8/28/2017 5:20:37 PM
n-Butylbenzene	ND	0.00794		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dichlorobenzene	ND	0.00597		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dibromo-3-chloropropane	ND	0.00748		µg/L	1	8/28/2017 5:20:37 PM
1,2,4-Trimethylbenzene	2.12	0.00613		µg/L	1	8/28/2017 5:20:37 PM
Hexachlorobutadiene	ND	0.0197		µg/L	1	8/28/2017 5:20:37 PM
Naphthalene	0.0270	0.0205	J	µg/L	1	8/28/2017 5:20:37 PM
1,2,3-Trichlorobenzene	ND	0.00766		µg/L	1	8/28/2017 5:20:37 PM
Surr: Dibromofluoromethane	93.5	56.4 - 141		%Rec	1	8/28/2017 5:20:37 PM
Surr: Toluene-d8	99.9	66 - 138		%Rec	1	8/28/2017 5:20:37 PM
Surr: 1-Bromo-4-fluorobenzene-BFB	103	64.7 - 128		%Rec	1	8/28/2017 5:20:37 PM

Gasoline by NWTPH-Gx

Batch ID: 18033

Analyst: NG

Gasoline	110	0.724		µg/L	1	8/28/2017 5:20:37 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	8/28/2017 5:20:37 PM
Surr: Toluene-d8	100	65 - 135		%Rec	1	8/28/2017 5:20:37 PM

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID MB-18033	SampType: MBLK	Units: µg/L			Prep Date: 8/28/2017	RunNo: 38292					
Client ID: MBLKW	Batch ID: 18033				Analysis Date: 8/28/2017	SeqNo: 735865					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.48		2.500		99.3	65	135				
Surr: Toluene-d8	2.54		2.500		102	65	135				

Sample ID 1708319-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/28/2017	RunNo: 38292					
Client ID: BATCH	Batch ID: 18033				Analysis Date: 8/28/2017	SeqNo: 735861					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	20.4	5.00						22.99	11.9	30	
Surr: 4-Bromofluorobenzene	2.51		2.500		100	65	135		0		
Surr: Toluene-d8	2.53		2.500		101	65	135		0		

Sample ID LCS-18033	SampType: LCS	Units: µg/L			Prep Date: 8/28/2017	RunNo: 38292					
Client ID: LCSW	Batch ID: 18033				Analysis Date: 8/28/2017	SeqNo: 735864					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	55.2	5.00	50.00	0	110	65	135				
Surr: 4-Bromofluorobenzene	2.57		2.500		103	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-18033	SampType: MBLK	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291
Client ID: MBLKW	Batch ID: 18033		Analysis Date: 8/28/2017	SeqNo: 735798

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane (CFC-11)	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane (EDC)	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.100									
Bromodichloromethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropylene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0250									



Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-18033	SampType: MBLK	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291
Client ID: MBLKW	Batch ID: 18033		Analysis Date: 8/28/2017	SeqNo: 735798

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.31		2.500		92.2	56.4	141				
Surr: Toluene-d8	2.44		2.500		97.7	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.50		2.500		100	64.7	128				

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-18033	SampType: MBLK	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291							
Client ID: MBLKW	Batch ID: 18033		Analysis Date: 8/28/2017	SeqNo: 735798							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID 1708319-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291							
Client ID: BATCH	Batch ID: 18033		Analysis Date: 8/28/2017	SeqNo: 735794							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0371	0.100						0.03157	16.1	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Bromodichloromethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0.02738	200	30	

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1708319-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/28/2017	RunNo:	38291	Client ID:	BATCH	Batch ID:	18033	Analysis Date:	8/28/2017	SeqNo:	735794
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual						
trans-1,3-Dichloropropylene	ND	0.100						0	0	30							
1,1,2-Trichloroethane	ND	0.100						0	0	30							
1,3-Dichloropropane	ND	0.100						0	0	30							
Tetrachloroethene (PCE)	ND	0.100						0	0	30							
Dibromochloromethane	ND	0.100						0	0	30							
1,2-Dibromoethane (EDB)	ND	0.0250						0	0	30							
Chlorobenzene	ND	0.100						0	0	30							
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30							
Ethylbenzene	0.0218	0.100						0.03141	36.0	30	J						
m,p-Xylene	0.416	0.100						0.4702	12.3	30							
o-Xylene	0.189	0.100						0.2144	12.7	30							
Styrene	0.0524	0.100						0.05147	1.87	30	J						
Isopropylbenzene	ND	0.100						0	0	30							
Bromoform	ND	0.100						0	0	30							
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30							
n-Propylbenzene	0.0258	0.100						0.03133	19.4	30	J						
Bromobenzene	ND	0.100						0	0	30							
1,3,5-Trimethylbenzene	0.207	0.100						0.2483	18.3	30							
2-Chlorotoluene	ND	0.100						0	0	30							
4-Chlorotoluene	ND	0.100						0	0	30							
tert-Butylbenzene	ND	0.100						0	0	30							
1,2,3-Trichloropropane	ND	0.100						0	0	30							
1,2,4-Trichlorobenzene	ND	0.200						0	0	30							
sec-Butylbenzene	ND	0.100						0	0	30							
4-Isopropyltoluene	ND	0.100						0	0	30							
1,3-Dichlorobenzene	ND	0.100						0	0	30							
1,4-Dichlorobenzene	ND	0.100						0	0	30							
n-Butylbenzene	ND	0.100						0	0	30							
1,2-Dichlorobenzene	ND	0.100						0	0	30							
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30							
1,2,4-Trimethylbenzene	0.130	0.100						0.1881	36.7	30							

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1708319-002AREP	SampType: REP	Units: µg/L				Prep Date: 8/28/2017	RunNo: 38291				
Client ID: BATCH	Batch ID: 18033					Analysis Date: 8/28/2017	SeqNo: 735794				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.33		2.500		93.2	61.1	128		0		
Surr: Toluene-d8	2.50		2.500		100	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.54		2.500		102	64.7	128		0		

Sample ID LCS-18033	SampType: LCS	Units: µg/L				Prep Date: 8/28/2017	RunNo: 38291				
Client ID: LCSW	Batch ID: 18033					Analysis Date: 8/28/2017	SeqNo: 735797				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.00	0.100	2.000	0	99.9	38.8	143				
Chloromethane	2.01	0.100	2.000	0	100	42.5	131				
Vinyl chloride	2.09	0.0200	2.000	0	104	56.2	130				
Bromomethane	1.84	0.100	2.000	0	91.9	45.4	138				
Trichlorofluoromethane (CFC-11)	1.81	0.100	2.000	0	90.7	64.7	129				
Chloroethane	1.92	0.100	2.000	0	95.8	62.5	123				
1,1-Dichloroethene	2.01	0.100	2.000	0	101	60.7	146				
Methylene chloride	1.98	0.100	2.000	0	99.2	60.3	135				
trans-1,2-Dichloroethene	1.99	0.100	2.000	0	99.4	71.3	129				
Methyl tert-butyl ether (MTBE)	2.35	0.100	2.000	0	118	59.3	138				
1,1-Dichloroethane	1.93	0.100	2.000	0	96.7	71.3	129				
2,2-Dichloropropane	2.20	0.200	2.000	0	110	37.8	132				
cis-1,2-Dichloroethene	1.96	0.100	2.000	0	98.2	67.5	127				
Chloroform	1.89	0.100	2.000	0	94.7	70.3	123				
1,1,1-Trichloroethane (TCA)	1.95	0.100	2.000	0	97.3	67.9	134				
1,1-Dichloropropene	2.03	0.100	2.000	0	101	72.1	133				
Carbon tetrachloride	1.87	0.100	2.000	0	93.6	64.4	133				
1,2-Dichloroethane (EDC)	1.95	0.100	2.000	0	97.5	65.8	126				
Benzene	1.97	0.100	2.000	0	98.7	67.1	132				

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-18033	SampType:	LCS	Units:	µg/L	Prep Date:	8/28/2017	RunNo:	38291
Client ID:	LCSW	Batch ID:	18033			Analysis Date:	8/28/2017	SeqNo:	735797

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	2.01	0.0500	2.000	0	101	71.9	130				
1,2-Dichloropropane	1.96	0.100	2.000	0	98.2	71.9	131				
Bromodichloromethane	1.87	0.100	2.000	0	93.5	70	130				
Dibromomethane	2.06	0.100	2.000	0	103	74.2	125				
cis-1,3-Dichloropropene	2.05	0.100	2.000	0	102	62.8	135				
Toluene	2.04	0.100	2.000	0	102	73.6	127				
trans-1,3-Dichloropropylene	2.26	0.100	2.000	0	113	58.1	138				
1,1,2-Trichloroethane	2.13	0.100	2.000	0	106	65.4	128				
1,3-Dichloropropane	2.13	0.100	2.000	0	106	71.9	131				
Tetrachloroethene (PCE)	2.08	0.100	2.000	0	104	52.4	140				
Dibromochloromethane	2.00	0.100	2.000	0	100	68.7	139				
1,2-Dibromoethane (EDB)	2.16	0.0250	2.000	0	108	71.2	129				
Chlorobenzene	2.02	0.100	2.000	0	101	77.2	122				
1,1,1,2-Tetrachloroethane	1.96	0.100	2.000	0	97.8	76.2	130				
Ethylbenzene	2.02	0.100	2.000	0	101	78	127				
m,p-Xylene	4.09	0.100	4.000	0	102	77.5	130				
o-Xylene	2.03	0.100	2.000	0	101	77.6	126				
Styrene	2.02	0.100	2.000	0	101	66.8	137				
Isopropylbenzene	2.06	0.100	2.000	0	103	75.9	133				
Bromoform	2.02	0.100	2.000	0	101	54.1	146				
1,1,2,2-Tetrachloroethane	2.23	0.100	2.000	0	111	68	134				
n-Propylbenzene	2.04	0.100	2.000	0	102	77.1	133				
Bromobenzene	2.06	0.100	2.000	0	103	71.1	131				
1,3,5-Trimethylbenzene	2.04	0.100	2.000	0	102	76.2	133				
2-Chlorotoluene	2.00	0.100	2.000	0	100	67.1	137				
4-Chlorotoluene	1.99	0.100	2.000	0	99.5	70.7	132				
tert-Butylbenzene	2.05	0.100	2.000	0	103	71.3	139				
1,2,3-Trichloropropane	2.40	0.100	2.000	0	120	70.8	132				
1,2,4-Trichlorobenzene	2.28	0.200	2.000	0	114	61.4	139				
sec-Butylbenzene	2.07	0.100	2.000	0	103	77.4	136				
4-Isopropyltoluene	2.07	0.100	2.000	0	104	78.1	131				

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-18033	SampType:	LCS	Units:	µg/L	Prep Date:	8/28/2017	RunNo:	38291
Client ID:	LCSW	Batch ID:	18033			Analysis Date:	8/28/2017	SeqNo:	735797

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	2.05	0.100	2.000	0	102	73.5	125				
1,4-Dichlorobenzene	2.05	0.100	2.000	0	102	71.4	125				
n-Butylbenzene	2.10	0.100	2.000	0	105	69.8	138				
1,2-Dichlorobenzene	2.10	0.100	2.000	0	105	74.2	123				
1,2-Dibromo-3-chloropropane	2.42	0.100	2.000	0	121	53.6	155				
1,2,4-Trimethylbenzene	2.04	0.100	2.000	0	102	72.3	133				
Hexachlorobutadiene	2.20	0.400	2.000	0	110	60.9	141				
Naphthalene	2.56	0.100	2.000	0	128	58.2	140				
1,2,3-Trichlorobenzene	2.39	0.400	2.000	0	120	61.3	133				
Surr: Dibromofluoromethane	2.44		2.500		97.7	56.4	141				
Surr: Toluene-d8	2.48		2.500		99.0	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.63		2.500		105	64.7	128				

Client Name: **BLAES**
 Logged by: **Erica Silva**

Work Order Number: **1708318**
 Date Received: **8/28/2017 8:33:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 1708318

August 30, 2017

Attention Dan Blaes:

Fremont Analytical, Inc. received 1 sample(s) on 8/28/2017 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 08/30/2017

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 1708318

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1708318-001	Influent	08/26/2017 8:00 AM	08/28/2017 8:33 AM

CLIENT: Blaes Environmental

Project: Circle K #6049

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/26/2017 8:00:00 AM

Project: Circle K #6049

Lab ID: 1708318-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 18033

Analyst: NG

Dichlorodifluoromethane	ND	0.0109		µg/L	1	8/28/2017 5:20:37 PM
Chloromethane	ND	0.00466		µg/L	1	8/28/2017 5:20:37 PM
Vinyl chloride	ND	0.00817		µg/L	1	8/28/2017 5:20:37 PM
Bromomethane	ND	0.0118		µg/L	1	8/28/2017 5:20:37 PM
Trichlorofluoromethane (CFC-11)	ND	0.00474		µg/L	1	8/28/2017 5:20:37 PM
Chloroethane	ND	0.0101		µg/L	1	8/28/2017 5:20:37 PM
1,1-Dichloroethene	ND	0.00356		µg/L	1	8/28/2017 5:20:37 PM
Methylene chloride	0.0564	0.00356	J	µg/L	1	8/28/2017 5:20:37 PM
trans-1,2-Dichloroethene	ND	0.00992		µg/L	1	8/28/2017 5:20:37 PM
Methyl tert-butyl ether (MTBE)	ND	0.00571		µg/L	1	8/28/2017 5:20:37 PM
1,1-Dichloroethane	ND	0.00903		µg/L	1	8/28/2017 5:20:37 PM
2,2-Dichloropropane	ND	0.00275		µg/L	1	8/28/2017 5:20:37 PM
cis-1,2-Dichloroethene	ND	0.00790		µg/L	1	8/28/2017 5:20:37 PM
Chloroform	ND	0.0126		µg/L	1	8/28/2017 5:20:37 PM
1,1,1-Trichloroethane (TCA)	ND	0.00839		µg/L	1	8/28/2017 5:20:37 PM
1,1-Dichloropropene	ND	0.00385		µg/L	1	8/28/2017 5:20:37 PM
Carbon tetrachloride	ND	0.0534		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dichloroethane (EDC)	ND	0.00831		µg/L	1	8/28/2017 5:20:37 PM
Benzene	ND	0.00747		µg/L	1	8/28/2017 5:20:37 PM
Trichloroethene (TCE)	ND	0.00948		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dichloropropane	ND	0.00704		µg/L	1	8/28/2017 5:20:37 PM
Bromodichloromethane	ND	0.00609		µg/L	1	8/28/2017 5:20:37 PM
Dibromomethane	ND	0.00988		µg/L	1	8/28/2017 5:20:37 PM
cis-1,3-Dichloropropene	ND	0.0102		µg/L	1	8/28/2017 5:20:37 PM
Toluene	0.0320	0.00912	J	µg/L	1	8/28/2017 5:20:37 PM
trans-1,3-Dichloropropylene	ND	0.00996		µg/L	1	8/28/2017 5:20:37 PM
1,1,2-Trichloroethane	ND	0.00735		µg/L	1	8/28/2017 5:20:37 PM
1,3-Dichloropropane	ND	0.00784		µg/L	1	8/28/2017 5:20:37 PM
Tetrachloroethene (PCE)	ND	0.00851		µg/L	1	8/28/2017 5:20:37 PM
Dibromochloromethane	ND	0.00528		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dibromoethane (EDB)	ND	0.00861		µg/L	1	8/28/2017 5:20:37 PM
Chlorobenzene	ND	0.00702		µg/L	1	8/28/2017 5:20:37 PM
1,1,1,2-Tetrachloroethane	ND	0.00540		µg/L	1	8/28/2017 5:20:37 PM
Ethylbenzene	0.0372	0.00868	J	µg/L	1	8/28/2017 5:20:37 PM
m,p-Xylene	2.29	0.00616		µg/L	1	8/28/2017 5:20:37 PM
o-Xylene	1.35	0.00688		µg/L	1	8/28/2017 5:20:37 PM
Styrene	ND	0.00511		µg/L	1	8/28/2017 5:20:37 PM
Isopropylbenzene	0.0669	0.00588	J	µg/L	1	8/28/2017 5:20:37 PM
Bromoform	ND	0.00751		µg/L	1	8/28/2017 5:20:37 PM



Client: Blaes Environmental

Collection Date: 8/26/2017 8:00:00 AM

Project: Circle K #6049

Lab ID: 1708318-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 18033

Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.00769		µg/L	1	8/28/2017 5:20:37 PM
n-Propylbenzene	0.105	0.00619		µg/L	1	8/28/2017 5:20:37 PM
Bromobenzene	ND	0.00460		µg/L	1	8/28/2017 5:20:37 PM
1,3,5-Trimethylbenzene	2.17	0.00614		µg/L	1	8/28/2017 5:20:37 PM
2-Chlorotoluene	ND	0.00729		µg/L	1	8/28/2017 5:20:37 PM
4-Chlorotoluene	ND	0.00773		µg/L	1	8/28/2017 5:20:37 PM
tert-Butylbenzene	ND	0.00607		µg/L	1	8/28/2017 5:20:37 PM
1,2,3-Trichloropropane	ND	0.00713		µg/L	1	8/28/2017 5:20:37 PM
1,2,4-Trichlorobenzene	ND	0.00630		µg/L	1	8/28/2017 5:20:37 PM
sec-Butylbenzene	ND	0.00822		µg/L	1	8/28/2017 5:20:37 PM
4-Isopropyltoluene	ND	0.00798		µg/L	1	8/28/2017 5:20:37 PM
1,3-Dichlorobenzene	ND	0.00697		µg/L	1	8/28/2017 5:20:37 PM
1,4-Dichlorobenzene	ND	0.00379		µg/L	1	8/28/2017 5:20:37 PM
n-Butylbenzene	ND	0.00794		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dichlorobenzene	ND	0.00597		µg/L	1	8/28/2017 5:20:37 PM
1,2-Dibromo-3-chloropropane	ND	0.00748		µg/L	1	8/28/2017 5:20:37 PM
1,2,4-Trimethylbenzene	2.12	0.00613		µg/L	1	8/28/2017 5:20:37 PM
Hexachlorobutadiene	ND	0.0197		µg/L	1	8/28/2017 5:20:37 PM
Naphthalene	0.0270	0.0205	J	µg/L	1	8/28/2017 5:20:37 PM
1,2,3-Trichlorobenzene	ND	0.00766		µg/L	1	8/28/2017 5:20:37 PM
Surr: Dibromofluoromethane	93.5	56.4 - 141		%Rec	1	8/28/2017 5:20:37 PM
Surr: Toluene-d8	99.9	66 - 138		%Rec	1	8/28/2017 5:20:37 PM
Surr: 1-Bromo-4-fluorobenzene-BFB	103	64.7 - 128		%Rec	1	8/28/2017 5:20:37 PM

Gasoline by NWTPH-Gx

Batch ID: 18033

Analyst: NG

Gasoline	110	0.724		µg/L	1	8/28/2017 5:20:37 PM
Surr: 4-Bromofluorobenzene	102	65 - 135		%Rec	1	8/28/2017 5:20:37 PM
Surr: Toluene-d8	100	65 - 135		%Rec	1	8/28/2017 5:20:37 PM

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID MB-18033	SampType: MBLK	Units: µg/L			Prep Date: 8/28/2017	RunNo: 38292					
Client ID: MBLKW	Batch ID: 18033				Analysis Date: 8/28/2017	SeqNo: 735865					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.48		2.500		99.3	65	135				
Surr: Toluene-d8	2.54		2.500		102	65	135				

Sample ID 1708319-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/28/2017	RunNo: 38292					
Client ID: BATCH	Batch ID: 18033				Analysis Date: 8/28/2017	SeqNo: 735861					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	20.4	5.00						22.99	11.9	30	
Surr: 4-Bromofluorobenzene	2.51		2.500		100	65	135		0		
Surr: Toluene-d8	2.53		2.500		101	65	135		0		

Sample ID LCS-18033	SampType: LCS	Units: µg/L			Prep Date: 8/28/2017	RunNo: 38292					
Client ID: LCSW	Batch ID: 18033				Analysis Date: 8/28/2017	SeqNo: 735864					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	55.2	5.00	50.00	0	110	65	135				
Surr: 4-Bromofluorobenzene	2.57		2.500		103	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-18033	SampType: MBLK	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291							
Client ID: MBLKW	Batch ID: 18033		Analysis Date: 8/28/2017	SeqNo: 735798							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane (CFC-11)	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane (EDC)	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.100									
Bromodichloromethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropylene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0250									



Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-18033	SampType: MBLK	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291
Client ID: MBLKW	Batch ID: 18033		Analysis Date: 8/28/2017	SeqNo: 735798

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.31		2.500		92.2	56.4	141				
Surr: Toluene-d8	2.44		2.500		97.7	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.50		2.500		100	64.7	128				

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID MB-18033	SampType: MBLK	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291							
Client ID: MBLKW	Batch ID: 18033	Analysis Date: 8/28/2017	SeqNo: 735798								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID 1708319-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/28/2017	RunNo: 38291							
Client ID: BATCH	Batch ID: 18033	Analysis Date: 8/28/2017	SeqNo: 735794								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	0.0371	0.100						0.03157	16.1	30	J
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
2,2-Dichloropropane	ND	0.200						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Bromodichloromethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	ND	0.100						0.02738	200	30	

Work Order: 1708318
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1708319-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/28/2017	RunNo:	38291
Client ID:	BATCH	Batch ID:	18033			Analysis Date:	8/28/2017	SeqNo:	735794

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropylene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.0250						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	0.0218	0.100						0.03141	36.0	30	J
m,p-Xylene	0.416	0.100						0.4702	12.3	30	
o-Xylene	0.189	0.100						0.2144	12.7	30	
Styrene	0.0524	0.100						0.05147	1.87	30	J
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	0.0258	0.100						0.03133	19.4	30	J
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.207	0.100						0.2483	18.3	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.130	0.100						0.1881	36.7	30	

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID 1708319-002AREP	SampType: REP	Units: µg/L				Prep Date: 8/28/2017	RunNo: 38291				
Client ID: BATCH	Batch ID: 18033					Analysis Date: 8/28/2017	SeqNo: 735794				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.33		2.500		93.2	61.1	128		0		
Surr: Toluene-d8	2.50		2.500		100	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.54		2.500		102	64.7	128		0		

Sample ID LCS-18033	SampType: LCS	Units: µg/L				Prep Date: 8/28/2017	RunNo: 38291				
Client ID: LCSW	Batch ID: 18033					Analysis Date: 8/28/2017	SeqNo: 735797				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.00	0.100	2.000	0	99.9	38.8	143				
Chloromethane	2.01	0.100	2.000	0	100	42.5	131				
Vinyl chloride	2.09	0.0200	2.000	0	104	56.2	130				
Bromomethane	1.84	0.100	2.000	0	91.9	45.4	138				
Trichlorofluoromethane (CFC-11)	1.81	0.100	2.000	0	90.7	64.7	129				
Chloroethane	1.92	0.100	2.000	0	95.8	62.5	123				
1,1-Dichloroethene	2.01	0.100	2.000	0	101	60.7	146				
Methylene chloride	1.98	0.100	2.000	0	99.2	60.3	135				
trans-1,2-Dichloroethene	1.99	0.100	2.000	0	99.4	71.3	129				
Methyl tert-butyl ether (MTBE)	2.35	0.100	2.000	0	118	59.3	138				
1,1-Dichloroethane	1.93	0.100	2.000	0	96.7	71.3	129				
2,2-Dichloropropane	2.20	0.200	2.000	0	110	37.8	132				
cis-1,2-Dichloroethene	1.96	0.100	2.000	0	98.2	67.5	127				
Chloroform	1.89	0.100	2.000	0	94.7	70.3	123				
1,1,1-Trichloroethane (TCA)	1.95	0.100	2.000	0	97.3	67.9	134				
1,1-Dichloropropene	2.03	0.100	2.000	0	101	72.1	133				
Carbon tetrachloride	1.87	0.100	2.000	0	93.6	64.4	133				
1,2-Dichloroethane (EDC)	1.95	0.100	2.000	0	97.5	65.8	126				
Benzene	1.97	0.100	2.000	0	98.7	67.1	132				

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-18033	SampType:	LCS	Units:	µg/L	Prep Date:	8/28/2017	RunNo:	38291
Client ID:	LCSW	Batch ID:	18033			Analysis Date:	8/28/2017	SeqNo:	735797

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	2.01	0.0500	2.000	0	101	71.9	130				
1,2-Dichloropropane	1.96	0.100	2.000	0	98.2	71.9	131				
Bromodichloromethane	1.87	0.100	2.000	0	93.5	70	130				
Dibromomethane	2.06	0.100	2.000	0	103	74.2	125				
cis-1,3-Dichloropropene	2.05	0.100	2.000	0	102	62.8	135				
Toluene	2.04	0.100	2.000	0	102	73.6	127				
trans-1,3-Dichloropropylene	2.26	0.100	2.000	0	113	58.1	138				
1,1,2-Trichloroethane	2.13	0.100	2.000	0	106	65.4	128				
1,3-Dichloropropane	2.13	0.100	2.000	0	106	71.9	131				
Tetrachloroethene (PCE)	2.08	0.100	2.000	0	104	52.4	140				
Dibromochloromethane	2.00	0.100	2.000	0	100	68.7	139				
1,2-Dibromoethane (EDB)	2.16	0.0250	2.000	0	108	71.2	129				
Chlorobenzene	2.02	0.100	2.000	0	101	77.2	122				
1,1,1,2-Tetrachloroethane	1.96	0.100	2.000	0	97.8	76.2	130				
Ethylbenzene	2.02	0.100	2.000	0	101	78	127				
m,p-Xylene	4.09	0.100	4.000	0	102	77.5	130				
o-Xylene	2.03	0.100	2.000	0	101	77.6	126				
Styrene	2.02	0.100	2.000	0	101	66.8	137				
Isopropylbenzene	2.06	0.100	2.000	0	103	75.9	133				
Bromoform	2.02	0.100	2.000	0	101	54.1	146				
1,1,2,2-Tetrachloroethane	2.23	0.100	2.000	0	111	68	134				
n-Propylbenzene	2.04	0.100	2.000	0	102	77.1	133				
Bromobenzene	2.06	0.100	2.000	0	103	71.1	131				
1,3,5-Trimethylbenzene	2.04	0.100	2.000	0	102	76.2	133				
2-Chlorotoluene	2.00	0.100	2.000	0	100	67.1	137				
4-Chlorotoluene	1.99	0.100	2.000	0	99.5	70.7	132				
tert-Butylbenzene	2.05	0.100	2.000	0	103	71.3	139				
1,2,3-Trichloropropane	2.40	0.100	2.000	0	120	70.8	132				
1,2,4-Trichlorobenzene	2.28	0.200	2.000	0	114	61.4	139				
sec-Butylbenzene	2.07	0.100	2.000	0	103	77.4	136				
4-Isopropyltoluene	2.07	0.100	2.000	0	104	78.1	131				

Work Order: 1708318
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-18033	SampType:	LCS	Units:	µg/L	Prep Date:	8/28/2017	RunNo:	38291		
Client ID:	LCSW	Batch ID:	18033			Analysis Date:	8/28/2017	SeqNo:	735797		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	2.05	0.100	2.000	0	102	73.5	125				
1,4-Dichlorobenzene	2.05	0.100	2.000	0	102	71.4	125				
n-Butylbenzene	2.10	0.100	2.000	0	105	69.8	138				
1,2-Dichlorobenzene	2.10	0.100	2.000	0	105	74.2	123				
1,2-Dibromo-3-chloropropane	2.42	0.100	2.000	0	121	53.6	155				
1,2,4-Trimethylbenzene	2.04	0.100	2.000	0	102	72.3	133				
Hexachlorobutadiene	2.20	0.400	2.000	0	110	60.9	141				
Naphthalene	2.56	0.100	2.000	0	128	58.2	140				
1,2,3-Trichlorobenzene	2.39	0.400	2.000	0	120	61.3	133				
Surr: Dibromofluoromethane	2.44		2.500		97.7	56.4	141				
Surr: Toluene-d8	2.48		2.500		99.0	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.63		2.500		105	64.7	128				

Client Name: BLAES	Work Order Number: 1708318
Logged by: Erica Silva	Date Received: 8/28/2017 8:33:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
- Air samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

APPENDIX G

2019 OPERATION AND MAINTENANACE SHEETS

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION										
CLIENT: CIRCLE K STORES INC					DATE: 8/12/2019		Page: 1 of 1			
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater					TIME ON-SITE: 6:00 PM					
LOCATION: Kennewick, Washington					TIME OFF-SITE:					
EQUIPMENT DETAIL										
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM					
VE Operational?					Restart System		AS Operational?			None
Fault Indicator:					None		Fault Indicator:			
System Adjusted Yes /No		Initial		Final		System Adjusted Yes /No		Initial		Final
VE Hour Meter:		8814.7				AS Hour Meter:				
Time:		7:55 PM				Time:				
Temp Control (F°):		790				System Pressure: (PSI)				
Dilution Temp (F°):		681								
High Limit Temp (F°):		680				AS Well ID	Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):						X	Initial	Final	Initial	Final
Total Flow-Recorder:		103								
Total Vacuum: ("Hg /"H ₂ O)		3" Hg								
Recirc Valve (% open):		20% Open								
Dilution Valve (% open):		Closed								
System has been down for a while. This is a restart focused on the area near the dispensers and specifically on well MW-2										
OXIDIZER VAPOR MONITORING										
Vapor Collected for Lab?		No								
Effluent PID (ppm):										
Post-Dilution INF PID (ppm):										
Influent PID (ppm):										
PID Model:				Cal Gas:						
VE Well ID	PID (ppm)		Flow (cfm)		Vac ("H ₂ O)					
X	Initial	Final	Initial	Final	Initial	Final				
MW-1							CONTROLLER SET POINTS			
MW-2			Open				Gas Train/Process Temp (F°):			
VE-1							Auto Dilution (F°):			
VE-2							High Temp (F°):			
VE-3							UTILITY READING			
VE-4							Natural Gas (ft ³):			
							Propane (% full):			
							Electricity (kWh):			

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/13/2019		Page: 1 of 1		
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE:				
LOCATION: Kennewick, Washington					TIME OFF-SITE:				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? System Running					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		8835.9				AS Hour Meter:			
Time:		5:00 PM				Time:			
Temp Control (F°):		792				System Pressure: (PSI)			
Dilution Temp (F°):		701							
High Limit Temp (F°):		700				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						Initial		Flow (cfm)	
Total Flow-Recorder:		109						Initial Final	
Total Vacuum: ("Hg /"H ₂ O)		5" Hg							
Recirc Valve (% open):		10% Open							
Dilution Valve (% open):		Closed							
Closed Recirculation Valve more to increase vacuum and flow									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					No				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
 		Initial Final		Initial Final		Initial Final			
MW-1								CONTROLLER SET POINTS	
MW-2				Open				Gas Train/Process Temp (F°):	
VE-1								Auto Dilution (F°):	
VE-2								High Temp (F°):	
VE-3								UTILITY READING	
VE-4								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/14/2019		Page: 1 of 1		
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 9:00 AM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 12:00 noon				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational? System Running					AS Operational? None				
Fault Indicator: None					Fault Indicator:				
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		8852.8				AS Hour Meter:			
Time:		9:58 AM				Time:			
Temp Control (F°):		790				System Pressure: (PSI)			
Dilution Temp (F°):		700							
High Limit Temp (F°):		700				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						XXXXXX		Flow (cfm)	
Total Flow-Recorder:		110				Initial		Final	
Total Vacuum: ("Hg /"H ₂ O)		5" Hg				Initial		Final	
Recirc Valve (% open):		10% Open				Initial		Final	
Dilution Valve (% open):		Closed				Initial		Final	
System running well and continuous									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					No				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
XXXXXX		Initial		Final		Initial		Final	
MW-1						CONTROLLER SET POINTS			
MW-2				Open		Gas Train/Process Temp (F°):			
VE-1						Auto Dilution (F°):			
VE-2						High Temp (F°):			
VE-3						UTILITY READING			
VE-4						Natural Gas (ft ³):			
						Propane (% full):			
						Electricity (kWh):			



REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION											
CLIENT: CIRCLE K STORES INC					DATE: 8/15/2019		Page: 1 of 1				
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes						
SITE: 6006 West Clearwater					TIME ON-SITE: 8:00 AM						
LOCATION: Kennewick, Washington					TIME OFF-SITE: 9:45 AM						
EQUIPMENT DETAIL											
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM						
VE Operational? System Running-Shutdown					AS Operational? None						
Fault Indicator: None					Fault Indicator:						
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Initial		Final	
VE Hour Meter:					8875.8		AS Hour Meter:				
Time:					8:57 AM		Time:				
Temp Control (F°):					785		System Pressure: (PSI)				
Dilution Temp (F°):					700						
High Limit Temp (F°):					699		AS Well ID	Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):							X	Initial	Final	Initial	Final
Total Flow-Recorder:					120						
Total Vacuum: ("Hg /"H ₂ O)					6" Hg						
Recirc Valve (% open):					5% open						
Dilution Valve (% open):					Closed						
Vapor Sampled before Shut down											
Shut down and removed above ground piping and barricades											
Turned in Vapor E samples from Influent and Effluent to Fremont Analytical											
OXIDIZER VAPOR MONITORING											
Vapor Collected for Lab? Yes											
Effluent PID (ppm):											
Post-Dilution INF PID (ppm):											
Influent PID (ppm):											
PID Model:					Cal Gas:						
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)					
X		Initial	Final	Initial	Final	Initial	Final				
MW-1					CONTROLLER SET POINTS						
MW-2					Open		Gas Train/Process Temp (F°):				
VE-1					Auto Dilution (F°):						
VE-2					High Temp (F°):						
VE-3					UTILITY READING						
VE-4					Natural Gas (ft ³):						
					Propane (% full):						
					Electricity (kWh):						

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION										
CLIENT: CIRCLE K STORES INC					DATE: 8/20/2019		Page: 1 of 1			
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater					TIME ON-SITE: 2:45 PM					
LOCATION: Kennewick, Washington					TIME OFF-SITE:					
EQUIPMENT DETAIL										
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM					
VE Operational?					System Restart on VE-1A		AS Operational?			None
Fault Indicator:					None		Fault Indicator:			
System Adjusted Yes/No		Initial	Final		System Adjusted Yes/No		Initial	Final		
VE Hour Meter:		8875.8		AS Hour Meter:						
Time:		3:05 PM		Time:						
Temp Control (F°):		799		System Pressure: (PSI)						
Dilution Temp (F°):		803								
High Limit Temp (F°):		804		AS Well ID		Pressure (psi)		Flow (cfm)		
Total Flow-Manifold (cfm):				X		Initial	Final	Initial	Final	
Total Flow-Recorder:		96								
Total Vacuum: ("Hg /"H ₂ O)		7" Hg								
Recirc Valve (% open):		5% open								
Dilution Valve (% open):		50% open								
Operating solely on vapor well VE-1A										
OXIDIZER VAPOR MONITORING										
Vapor Collected for Lab?		No								
Effluent PID (ppm):										
Post-Dilution INF PID (ppm):										
Influent PID (ppm):										
PID Model:				Cal Gas:						
VE Well ID	PID (ppm)		Flow (cfm)		Vac ("H ₂ O)					
X	Initial	Final	Initial	Final	Initial	Final				
MW-1							CONTROLLER SET POINTS			
MW-2							Gas Train/Process Temp (F°):			
VE-1A			Open				Auto Dilution (F°):			
VE-1B							High Temp (F°):			
VE-3							UTILITY READING			
VE-4							Natural Gas (ft ³):			
							Propane (% full):			
							Electricity (kWh):			

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION							
CLIENT: CIRCLE K STORES INC				DATE: 8/21/2019		Page: 1 of 1	
PROJECT #: 202-6049-10				PERSONNEL: Dan Blaes			
SITE: 6006 West Clearwater				TIME ON-SITE: 6:45 AM			
LOCATION: Kennewick, Washington				TIME OFF-SITE:			
EQUIPMENT DETAIL							
VAPOR EXTRACTION SYSTEM				AIR SPARGE SYSTEM			
VE Operational? Running on VE-1A				AS Operational? None			
Fault Indicator: None				Fault Indicator:			
System Adjusted Yes/No		Initial	Final	System Adjusted Yes/No		Initial	Final
VE Hour Meter:		8892.1		AS Hour Meter:			
Time:		7:10 AM		Time:			
Temp Control (F°):		802		System Pressure: (PSI)			
Dilution Temp (F°):		820					
High Limit Temp (F°):		821		AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):				XXXXXXXXXX		Initial	Final
Total Flow-Recorder:		50				Initial	Final
Total Vacuum: ("Hg /"H ₂ O)		8" Hg					
Recirc Valve (% open):		5% open					
Dilution Valve (% open):		20% open					
Adjusted Manual dilution closing it more							
OXIDIZER VAPOR MONITORING							
Vapor Collected for Lab?		No					
Effluent PID (ppm):							
Post-Dilution INF PID (ppm):							
Influent PID (ppm):							
PID Model:		Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)	
XXXXXXXXXX		Initial	Final	Initial	Final	Initial	Final
MW-1						CONTROLLER SET POINTS	
MW-2						Gas Train/Process Temp (F°):	
VE-1A			Open			Auto Dilution (F°):	
VE-1B						High Temp (F°):	
VE-3						UTILITY READING	
VE-4						Natural Gas (ft ³):	
						Propane (% full):	
						Electricity (kWh):	



REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION												
CLIENT: CIRCLE K STORES INC					DATE: 8/22/2019		Page: 1 of 1					
PROJECT #: 202-6049-10					PERSONNEL: Dan Blaes							
SITE: 6006 West Clearwater					TIME ON-SITE: 6:00 AM							
LOCATION: Kennewick, Washington					TIME OFF-SITE:							
EQUIPMENT DETAIL												
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM							
VE Operational?					Running on VE-1A		AS Operational?			None		
Fault Indicator:					None		Fault Indicator:					
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Initial		Final		
VE Hour Meter:					8915.5		AS Hour Meter:					
Time:					6:45 AM		Time:					
Temp Control (F°):					794		System Pressure: (PSI)					
Dilution Temp (F°):					801							
High Limit Temp (F°):					800		AS Well ID		Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):							X		Initial		Final	
Total Flow-Recorder:					36							
Total Vacuum: ("Hg /"H ₂ O)					6"Hg							
Recirc Valve (% open):					5% open							
Dilution Valve (% open):					closed							
Adjusted Manual dilution closing it												
Vapor sampled "Vapor D" from VE-1A												
Shutdown system after vapor sampling and removed barricades and cones and hoses												
OXIDIZER VAPOR MONITORING												
Vapor Collected for Lab?					No							
Effluent PID (ppm):												
Post-Dilution INF PID (ppm):												
Influent PID (ppm):												
PID Model:							Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)						
X		Initial		Final		Initial		Final		Initial		
MW-1										CONTROLLER SET POINTS		
MW-2										Gas Train/Process Temp (F°):		
VE-1A				Open						Auto Dilution (F°):		
VE-1B										High Temp (F°):		
VE-3										UTILITY READING		
VE-4										Natural Gas (ft ³):		
										Propane (% full):		
										Electricity (kWh):		



APPENDIX H

2019 VAPOR LABORATORY REPORTS



Blaes Environmental

Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K # 6049

Work Order Number: 1908232

August 22, 2019

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/15/2019 for the analyses presented in the following report.

Gasoline by NWTPH-Gx

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



Date: 08/22/2019

CLIENT: Blaes Environmental
Project: Circle K # 6049
Work Order: 1908232

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908232-001	VAPOR E INFLUENT	08/15/2019 8:55 AM	08/15/2019 8:55 AM
1908232-002	VAPOR E EFFLUENT	08/15/2019 8:44 AM	08/15/2019 8:55 AM

CLIENT: Blaes Environmental

Project: Circle K # 6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/15/2019 8:55:00 AM

Project: Circle K # 6049

Lab ID: 1908232-001

Matrix: Air

Client Sample ID: VAPOR E INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25522

Analyst: CR

Dichlorodifluoromethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Chloromethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Vinyl chloride	ND	0.0200		µg/L	1	8/16/2019 12:30:57 PM
Bromomethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Trichlorofluoromethane (CFC-11)	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Chloroethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Methylene chloride	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Chloroform	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Carbon tetrachloride	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Benzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/16/2019 12:30:57 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Bromodichloromethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Dibromomethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Toluene	0.0316	0.100	J	µg/L	1	8/16/2019 12:30:57 PM
trans-1,3-Dichloropropylene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Dibromochloromethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2-Dibromoethane (EDB)	ND	0.0250		µg/L	1	8/16/2019 12:30:57 PM
Chlorobenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Ethylbenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
m,p-Xylene	0.222	0.100		µg/L	1	8/16/2019 12:30:57 PM
o-Xylene	0.0925	0.100	J	µg/L	1	8/16/2019 12:30:57 PM
Styrene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Isopropylbenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Bromoform	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM



Client: Blaes Environmental

Collection Date: 8/15/2019 8:55:00 AM

Project: Circle K # 6049

Lab ID: 1908232-001

Matrix: Air

Client Sample ID: VAPOR E INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25522

Analyst: CR

n-Propylbenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
Bromobenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,3,5-Trimethylbenzene	0.0617	0.100	J	µg/L	1	8/16/2019 12:30:57 PM
2-Chlorotoluene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
4-Chlorotoluene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
tert-Butylbenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	8/16/2019 12:30:57 PM
sec-Butylbenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
n-Butylbenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2,4-Trimethylbenzene	0.109	0.100		µg/L	1	8/16/2019 12:30:57 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	8/16/2019 12:30:57 PM
Naphthalene	ND	0.100		µg/L	1	8/16/2019 12:30:57 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	8/16/2019 12:30:57 PM
Surr: Dibromofluoromethane	101	56.4 - 141		%Rec	1	8/16/2019 12:30:57 PM
Surr: Toluene-d8	101	66 - 138		%Rec	1	8/16/2019 12:30:57 PM
Surr: 1-Bromo-4-fluorobenzene-BFB	97.0	64.7 - 128		%Rec	1	8/16/2019 12:30:57 PM

Gasoline by NWTPH-Gx

Batch ID: 25522

Analyst: CR

Gasoline	3.26	5.00	J	µg/L	1	8/16/2019 12:30:57 PM
Surr: 4-Bromofluorobenzene	99.0	65 - 135		%Rec	1	8/16/2019 12:30:57 PM
Surr: Toluene-d8	97.2	65 - 135		%Rec	1	8/16/2019 12:30:57 PM



Client: Blaes Environmental

Collection Date: 8/15/2019 8:44:00 AM

Project: Circle K # 6049

Lab ID: 1908232-002

Matrix: Air

Client Sample ID: VAPOR E EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25522

Analyst: CR

Dichlorodifluoromethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Chloromethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Vinyl chloride	ND	0.0200		µg/L	1	8/16/2019 11:00:07 AM
Bromomethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Trichlorofluoromethane (CFC-11)	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Chloroethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1-Dichloroethene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Methylene chloride	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1-Dichloroethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Chloroform	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1-Dichloropropene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Carbon tetrachloride	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Benzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/16/2019 11:00:07 AM
1,2-Dichloropropane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Bromodichloromethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Dibromomethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Toluene	0.110	0.100		µg/L	1	8/16/2019 11:00:07 AM
trans-1,3-Dichloropropylene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,3-Dichloropropane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2-Dibromoethane (EDB)	ND	0.0250		µg/L	1	8/16/2019 11:00:07 AM
Chlorobenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Ethylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
m,p-Xylene	0.0803	0.100	J	µg/L	1	8/16/2019 11:00:07 AM
o-Xylene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Styrene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Isopropylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Bromoform	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM



Client: Blaes Environmental

Collection Date: 8/15/2019 8:44:00 AM

Project: Circle K # 6049

Lab ID: 1908232-002

Matrix: Air

Client Sample ID: VAPOR E EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25522

Analyst: CR

n-Propylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Bromobenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
2-Chlorotoluene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
4-Chlorotoluene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
tert-Butylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	8/16/2019 11:00:07 AM
sec-Butylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
4-Isopropyltoluene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
n-Butylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	8/16/2019 11:00:07 AM
Naphthalene	ND	0.100		µg/L	1	8/16/2019 11:00:07 AM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	8/16/2019 11:00:07 AM
Surr: Dibromofluoromethane	98.6	56.4 - 141		%Rec	1	8/16/2019 11:00:07 AM
Surr: Toluene-d8	101	66 - 138		%Rec	1	8/16/2019 11:00:07 AM
Surr: 1-Bromo-4-fluorobenzene-BFB	96.6	64.7 - 128		%Rec	1	8/16/2019 11:00:07 AM

Gasoline by NWTPH-Gx

Batch ID: 25522

Analyst: CR

Gasoline	4.06	5.00	J	µg/L	1	8/16/2019 11:00:07 AM
Surr: 4-Bromofluorobenzene	99.0	65 - 135		%Rec	1	8/16/2019 11:00:07 AM
Surr: Toluene-d8	96.9	65 - 135		%Rec	1	8/16/2019 11:00:07 AM

Work Order: 1908232
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: MB-25522	SampType: MBLK	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53384							
Client ID: MBLKW	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056063							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	1.52	5.00									J
Surr: 4-Bromofluorobenzene	2.42		2.500		97.0	65	135				
Surr: Toluene-d8	2.51		2.500		100	65	135				

Sample ID: 1908211-001AREP	SampType: REP	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53384							
Client ID: BATCH	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056056							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	93.1	5.00						89.55	3.92	30	
Surr: 4-Bromofluorobenzene	2.71		2.500		109	65	135		0		
Surr: Toluene-d8	2.47		2.500		98.8	65	135		0		

Sample ID: LCS-25522	SampType: LCS	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53384							
Client ID: LCSW	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056062							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	43.7	5.00	50.00	0	87.3	65	135				
Surr: 4-Bromofluorobenzene	2.55		2.500		102	65	135				
Surr: Toluene-d8	2.46		2.500		98.5	65	135				



Work Order: 1908232
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-25522	SampType: MBLK	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53383
Client ID: MBLKW	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056043

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane (CFC-11)	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane (EDC)	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.100									
Bromodichloromethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropylene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0250									
Chlorobenzene	ND	0.100									

Work Order: 1908232
CLIENT: Blaes Environmental
Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-25522	SampType: MBLK	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53383
Client ID: MBLKW	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056043

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.55		2.500		102	56.4	141				
Surr: Toluene-d8	2.52		2.500		101	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.42		2.500		96.7	64.7	128				



Work Order: 1908232
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908211-001AREP	SampType: REP	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53383
Client ID: BATCH	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056036

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.100						0	0	30	
Benzene	0.0862	0.100						0.08760	1.63	30	J
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Bromodichloromethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.294	0.100						0.3005	2.08	30	
trans-1,3-Dichloropropylene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.0250						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	



Work Order: 1908232
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908211-001AREP	SampType: REP	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53383
Client ID: BATCH	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056036

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	1.29	0.100						1.258	2.27	30	
o-Xylene	0.747	0.100						0.7256	2.91	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	0.603	0.100						0.5739	5.00	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.586	0.100						0.5634	3.91	30	
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.44		2.500		97.7	61.1	128		0		
Surr: Toluene-d8	2.61		2.500		104	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.61		2.500		104	64.7	128		0		



Work Order: 1908232
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25522	SampType: LCS	Units: µg/L	Prep Date: 8/16/2019	RunNo: 53383
Client ID: LCSW	Batch ID: 25522		Analysis Date: 8/16/2019	SeqNo: 1056042

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.30	0.100	2.000	0	115	38.8	143				
Chloromethane	2.33	0.100	2.000	0	116	42.5	131				
Vinyl chloride	2.23	0.0200	2.000	0	111	56.2	130				
Bromomethane	2.39	0.100	2.000	0	120	45.4	138				
Trichlorofluoromethane (CFC-11)	2.12	0.100	2.000	0	106	64.7	129				
Chloroethane	2.09	0.100	2.000	0	105	62.5	123				
1,1-Dichloroethene	2.08	0.100	2.000	0	104	60.7	146				
Methylene chloride	2.09	0.100	2.000	0	105	60.3	135				
trans-1,2-Dichloroethene	2.05	0.100	2.000	0	102	71.3	129				
Methyl tert-butyl ether (MTBE)	2.15	0.100	2.000	0	107	59.3	138				
1,1-Dichloroethane	2.12	0.100	2.000	0	106	71.3	129				
cis-1,2-Dichloroethene	2.06	0.100	2.000	0	103	67.5	127				
Chloroform	2.09	0.100	2.000	0	104	70.3	123				
1,1,1-Trichloroethane (TCA)	2.06	0.100	2.000	0	103	67.9	134				
1,1-Dichloropropene	2.11	0.100	2.000	0	106	72.1	133				
Carbon tetrachloride	2.01	0.100	2.000	0	101	64.4	133				
1,2-Dichloroethane (EDC)	2.13	0.100	2.000	0	107	65.8	126				
Benzene	2.08	0.100	2.000	0	104	67.1	132				
Trichloroethene (TCE)	2.05	0.0500	2.000	0	102	71.9	130				
1,2-Dichloropropane	2.11	0.100	2.000	0	106	71.9	131				
Bromodichloromethane	2.11	0.100	2.000	0	105	70	130				
Dibromomethane	2.13	0.100	2.000	0	107	74.2	125				
cis-1,3-Dichloropropene	2.03	0.100	2.000	0	102	62.8	135				
Toluene	2.06	0.100	2.000	0	103	73.6	127				
trans-1,3-Dichloropropylene	2.01	0.100	2.000	0	101	58.1	138				
1,1,2-Trichloroethane	2.11	0.100	2.000	0	106	65.4	128				
1,3-Dichloropropane	2.12	0.100	2.000	0	106	71.9	131				
Tetrachloroethene (PCE)	2.03	0.100	2.000	0	102	52.4	140				
Dibromochloromethane	2.08	0.100	2.000	0	104	68.7	139				
1,2-Dibromoethane (EDB)	2.10	0.0250	2.000	0	105	71.2	129				
Chlorobenzene	1.99	0.100	2.000	0	99.6	77.2	122				

Work Order: 1908232
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25522	SampType: LCS	Units: µg/L				Prep Date: 8/16/2019	RunNo: 53383				
Client ID: LCSW	Batch ID: 25522					Analysis Date: 8/16/2019	SeqNo: 1056042				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.96	0.100	2.000	0	98.1	76.2	130				
Ethylbenzene	2.04	0.100	2.000	0	102	78	127				
m,p-Xylene	4.01	0.100	4.000	0	100	77.5	130				
o-Xylene	1.93	0.100	2.000	0	96.7	77.6	126				
Styrene	1.95	0.100	2.000	0	97.5	66.8	137				
Isopropylbenzene	1.91	0.100	2.000	0	95.3	75.9	133				
Bromoform	2.11	0.100	2.000	0	106	54.1	146				
1,1,1,2,2-Tetrachloroethane	2.12	0.100	2.000	0	106	68	134				
n-Propylbenzene	2.01	0.100	2.000	0	100	77.1	133				
Bromobenzene	1.96	0.100	2.000	0	98.2	71.1	131				
1,3,5-Trimethylbenzene	1.95	0.100	2.000	0	97.4	76.2	133				
2-Chlorotoluene	2.00	0.100	2.000	0	99.9	67.1	137				
4-Chlorotoluene	1.98	0.100	2.000	0	99.1	70.7	132				
tert-Butylbenzene	1.99	0.100	2.000	0	99.5	71.3	139				
1,2,3-Trichloropropane	2.07	0.100	2.000	0	104	70.8	132				
1,2,4-Trichlorobenzene	2.04	0.200	2.000	0	102	61.4	139				
sec-Butylbenzene	1.90	0.100	2.000	0	95.2	77.4	136				
4-Isopropyltoluene	1.99	0.100	2.000	0	99.5	78.1	131				
1,3-Dichlorobenzene	2.05	0.100	2.000	0	103	73.5	125				
1,4-Dichlorobenzene	1.99	0.100	2.000	0	99.4	71.4	125				
n-Butylbenzene	2.07	0.100	2.000	0	103	69.8	138				
1,2-Dichlorobenzene	2.05	0.100	2.000	0	102	74.2	123				
1,2-Dibromo-3-chloropropane	2.33	0.100	2.000	0	116	53.6	155				
1,2,4-Trimethylbenzene	1.87	0.100	2.000	0	93.6	72.3	133				
Hexachlorobutadiene	1.95	0.400	2.000	0	97.7	60.9	141				
Naphthalene	2.09	0.100	2.000	0	105	58.2	140				
1,2,3-Trichlorobenzene	2.07	0.400	2.000	0	104	61.3	133				
Surr: Dibromofluoromethane	2.59		2.500		103	56.4	141				
Surr: Toluene-d8	2.64		2.500		106	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.59		2.500		104	64.7	128				

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **1908232**
 Date Received: **8/15/2019 8:55:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air Samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/15/19 Page: 1 of 1

Project Name: CIRCLE K #6049

Laboratory Project No (Internal): 1908232

Project No: 208-6049-10

Collected by: DAN BUSE

Location: KENNEDICK, WA

Report To (PM): DAN BUSE

Special Remarks:

Client: BUSES ENVIRONMENTAL

Address: 45 E MONROE WAY

City, State, zip: PHOENIX, AZ 85012

Telephone: 602-728-0707

Fax: 602-728-0708

PM Email: DBUSE@BUSESENVIRONMENTAL.COM

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analysis																Comments	
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (C)***	EDB (8011)					
1 VAPOR EFFLUENT	8/15/19	8:55	AWR X	X																	
2 VAPOR EFFLUENT	8/15/19	8:44	AWR X	X																	
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp Se Sr Sn Tl Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time: 8/15/19 2:27 pm
Received Date/Time: 8/15/19 14:27



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K # 6049
Work Order Number: 1908307

August 28, 2019

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/22/2019 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD/ELAP Certification #L 17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



Date: 08/28/2019

CLIENT: Blaes Environmental
Project: Circle K # 6049
Work Order: 1908307

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908307-001	INFLUENT Vapor D	08/22/2019 6:45 AM	08/22/2019 12:27 PM
1908307-002	EFFLUENT Vapor D	08/22/2019 6:44 AM	08/22/2019 12:27 PM

CLIENT: Blaes Environmental

Project: Circle K # 6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/22/2019 6:45:00 AM

Project: Circle K # 6049

Lab ID: 1908307-001

Matrix: Air

Client Sample ID: INFLUENT Vapor D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25610

Analyst: KT

Dichlorodifluoromethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Chloromethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Vinyl chloride	ND	0.0200		µg/L	1	8/23/2019 2:55:09 PM
Bromomethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Trichlorofluoromethane (CFC-11)	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Chloroethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Methylene chloride	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Chloroform	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Carbon tetrachloride	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Benzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/23/2019 2:55:09 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Bromodichloromethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Dibromomethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Toluene	0.0657	0.100	J	µg/L	1	8/23/2019 2:55:09 PM
trans-1,3-Dichloropropylene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Dibromochloromethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,2-Dibromoethane (EDB)	ND	0.0250		µg/L	1	8/23/2019 2:55:09 PM
Chlorobenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Ethylbenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
m,p-Xylene	33.1	2.00	DH	µg/L	20	8/26/2019 8:34:06 AM
m,p-Xylene	19.2	0.100	E	µg/L	1	8/23/2019 2:55:09 PM
o-Xylene	36.8	2.00	DH	µg/L	20	8/26/2019 8:34:06 AM
o-Xylene	20.1	0.100	E	µg/L	1	8/23/2019 2:55:09 PM
Styrene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Isopropylbenzene	1.31	0.100		µg/L	1	8/23/2019 2:55:09 PM



Client: Blaes Environmental

Collection Date: 8/22/2019 6:45:00 AM

Project: Circle K # 6049

Lab ID: 1908307-001

Matrix: Air

Client Sample ID: INFLUENT Vapor D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25610

Analyst: KT

Bromoform	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
n-Propylbenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
Bromobenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,3,5-Trimethylbenzene	22.5	2.00	DH	µg/L	20	8/26/2019 8:34:06 AM
1,3,5-Trimethylbenzene	10.1	0.100	E	µg/L	1	8/23/2019 2:55:09 PM
2-Chlorotoluene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
4-Chlorotoluene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
tert-Butylbenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	8/23/2019 2:55:09 PM
sec-Butylbenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
n-Butylbenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	8/23/2019 2:55:09 PM
1,2-Dibromo-3-chloropropane	ND	0.100	Q	µg/L	1	8/23/2019 2:55:09 PM
1,2,4-Trimethylbenzene	10.6	0.100	E	µg/L	1	8/23/2019 2:55:09 PM
1,2,4-Trimethylbenzene	38.1	2.00	DH	µg/L	20	8/26/2019 8:34:06 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	8/23/2019 2:55:09 PM
Naphthalene	0.0684	0.100	J	µg/L	1	8/23/2019 2:55:09 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	8/23/2019 2:55:09 PM
Surr: Dibromofluoromethane	102	56.4 - 141		%Rec	1	8/23/2019 2:55:09 PM
Surr: Toluene-d8	105	66 - 138		%Rec	1	8/23/2019 2:55:09 PM
Surr: 1-Bromo-4-fluorobenzene-BFB	108	64.7 - 128		%Rec	1	8/23/2019 2:55:09 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

E - Estimated value. The amount exceeds the linear working range of the instrument.

Gasoline by NWTPH-Gx

Batch ID: 25610

Analyst: KT

Gasoline	987	100	DH	µg/L	20	8/26/2019 8:34:06 AM
Gasoline	965	5.00	E	µg/L	1	8/23/2019 2:55:09 PM
Surr: 4-Bromofluorobenzene	153	65 - 135	S	%Rec	1	8/23/2019 2:55:09 PM
Surr: Toluene-d8	93.5	65 - 135		%Rec	1	8/23/2019 2:55:09 PM

NOTES:

S - Outlying surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

E - Estimated value. The amount exceeds the linear working range of the instrument.



Client: Blaes Environmental

Collection Date: 8/22/2019 6:45:00 AM

Project: Circle K # 6049

Lab ID: 1908307-001

Matrix: Air

Client Sample ID: INFLUENT Vapor D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Client: Blaes Environmental

Collection Date: 8/22/2019 6:44:00 AM

Project: Circle K # 6049

Lab ID: 1908307-002

Matrix: Air

Client Sample ID: EFFLUENT Vapor D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25610

Analyst: KT

Dichlorodifluoromethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Chloromethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Vinyl chloride	ND	0.0200		µg/L	1	8/23/2019 1:54:40 PM
Bromomethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Trichlorofluoromethane (CFC-11)	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Chloroethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Methylene chloride	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Chloroform	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Carbon tetrachloride	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Benzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/23/2019 1:54:40 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Bromodichloromethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Dibromomethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Toluene	0.0588	0.100	J	µg/L	1	8/23/2019 1:54:40 PM
trans-1,3-Dichloropropylene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Tetrachloroethene (PCE)	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Dibromochloromethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2-Dibromoethane (EDB)	ND	0.0250		µg/L	1	8/23/2019 1:54:40 PM
Chlorobenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Ethylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
m,p-Xylene	0.0416	0.100	J	µg/L	1	8/23/2019 1:54:40 PM
o-Xylene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Styrene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Isopropylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Bromoform	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM



Client: Blaes Environmental

Collection Date: 8/22/2019 6:44:00 AM

Project: Circle K # 6049

Lab ID: 1908307-002

Matrix: Air

Client Sample ID: EFFLUENT Vapor D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25610

Analyst: KT

n-Propylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
Bromobenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
2-Chlorotoluene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
4-Chlorotoluene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
tert-Butylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	8/23/2019 1:54:40 PM
sec-Butylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
n-Butylbenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2-Dibromo-3-chloropropane	ND	0.100	Q	µg/L	1	8/23/2019 1:54:40 PM
1,2,4-Trimethylbenzene	0.0413	0.100	J	µg/L	1	8/23/2019 1:54:40 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	8/23/2019 1:54:40 PM
Naphthalene	ND	0.100		µg/L	1	8/23/2019 1:54:40 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	8/23/2019 1:54:40 PM
Surr: Dibromofluoromethane	102	56.4 - 141		%Rec	1	8/23/2019 1:54:40 PM
Surr: Toluene-d8	100	66 - 138		%Rec	1	8/23/2019 1:54:40 PM
Surr: 1-Bromo-4-fluorobenzene-BFB	95.0	64.7 - 128		%Rec	1	8/23/2019 1:54:40 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Gasoline by NWTPH-Gx

Batch ID: 25610

Analyst: KT

Gasoline	2.09	5.00	J	µg/L	1	8/23/2019 1:54:40 PM
Surr: 4-Bromofluorobenzene	94.9	65 - 135		%Rec	1	8/23/2019 1:54:40 PM
Surr: Toluene-d8	100	65 - 135		%Rec	1	8/23/2019 1:54:40 PM

Work Order: 1908307
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID	MB-25610	SampType:	MBLK	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53486		
Client ID:	MBLKW	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058471		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.37		2.500		94.9	65	135				
Surr: Toluene-d8	2.49		2.500		99.6	65	135				

Sample ID	1908307-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53486		
Client ID:	EFFLUENT Vapor D	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058467		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	3.11	5.00						2.094	39.0	30	J
Surr: 4-Bromofluorobenzene	2.43		2.500		97.0	65	135		0		
Surr: Toluene-d8	2.49		2.500		99.4	65	135		0		

Sample ID	LCS-25610	SampType:	LCS	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53486		
Client ID:	LCSW	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058470		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	51.0	5.00	50.00	0	102	65	135				
Surr: 4-Bromofluorobenzene	2.43		2.500		97.2	65	135				
Surr: Toluene-d8	2.49		2.500		99.5	65	135				



Work Order: 1908307
CLIENT: Blaes Environmental
Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-25610	SampType: MBLK	Units: µg/L	Prep Date: 8/23/2019	RunNo: 53484							
Client ID: MBLKW	Batch ID: 25610		Analysis Date: 8/23/2019	SeqNo: 1058446							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane (CFC-11)	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane (EDC)	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.100									
Bromodichloromethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropylene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0250									
Chlorobenzene	ND	0.100									



Work Order: 1908307
CLIENT: Blaes Environmental
Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID MB-25610	SampType: MBLK	Units: µg/L	Prep Date: 8/23/2019	RunNo: 53484							
Client ID: MBLKW	Batch ID: 25610		Analysis Date: 8/23/2019	SeqNo: 1058446							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									Q
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.54		2.500		102	56.4	141				
Surr: Toluene-d8	2.49		2.500		99.4	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.37		2.500		94.8	64.7	128				

Work Order: 1908307
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID MB-25610	SampType: MBLK	Units: µg/L	Prep Date: 8/23/2019	RunNo: 53484							
Client ID: MBLKW	Batch ID: 25610		Analysis Date: 8/23/2019	SeqNo: 1058446							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID 1908307-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/23/2019	RunNo: 53484							
Client ID: EFFLUENT Vapor D	Batch ID: 25610		Analysis Date: 8/23/2019	SeqNo: 1058441							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0	0	30	
Chloromethane	ND	0.100						0	0	30	
Vinyl chloride	ND	0.0200						0	0	30	
Bromomethane	ND	0.100						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.100						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.100						0	0	30	
Methylene chloride	ND	0.100						0	0	30	
trans-1,2-Dichloroethene	ND	0.100						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.100						0	0	30	
1,1-Dichloroethane	ND	0.100						0	0	30	
cis-1,2-Dichloroethene	ND	0.100						0	0	30	
Chloroform	ND	0.100						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.100						0	0	30	
1,1-Dichloropropene	ND	0.100						0	0	30	
Carbon tetrachloride	ND	0.100						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.100						0	0	30	
Benzene	ND	0.100						0	0	30	
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.100						0	0	30	
Bromodichloromethane	ND	0.100						0	0	30	
Dibromomethane	ND	0.100						0	0	30	
cis-1,3-Dichloropropene	ND	0.100						0	0	30	
Toluene	0.0560	0.100						0.05881	4.89	30	J



Work Order: 1908307
CLIENT: Blaes Environmental
Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID	1908307-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53484
Client ID:	EFFLUENT Vapor D	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058441

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropylene	ND	0.100						0	0	30	
1,1,2-Trichloroethane	ND	0.100						0	0	30	
1,3-Dichloropropane	ND	0.100						0	0	30	
Tetrachloroethene (PCE)	ND	0.100						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.0250						0	0	30	
Chlorobenzene	ND	0.100						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.100						0	0	30	
Ethylbenzene	ND	0.100						0	0	30	
m,p-Xylene	0.0380	0.100						0.04157	9.07	30	J
o-Xylene	ND	0.100						0	0	30	
Styrene	ND	0.100						0	0	30	
Isopropylbenzene	ND	0.100						0	0	30	
Bromoform	ND	0.100						0	0	30	
1,1,1,2,2-Tetrachloroethane	ND	0.100						0	0	30	
n-Propylbenzene	ND	0.100						0	0	30	
Bromobenzene	ND	0.100						0	0	30	
1,3,5-Trimethylbenzene	ND	0.100						0	0	30	
2-Chlorotoluene	ND	0.100						0	0	30	
4-Chlorotoluene	ND	0.100						0	0	30	
tert-Butylbenzene	ND	0.100						0	0	30	
1,2,3-Trichloropropane	ND	0.100						0	0	30	
1,2,4-Trichlorobenzene	ND	0.200						0	0	30	
sec-Butylbenzene	ND	0.100						0	0	30	
4-Isopropyltoluene	ND	0.100						0	0	30	
1,3-Dichlorobenzene	ND	0.100						0	0	30	
1,4-Dichlorobenzene	ND	0.100						0	0	30	
n-Butylbenzene	ND	0.100						0	0	30	
1,2-Dichlorobenzene	ND	0.100						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	Q
1,2,4-Trimethylbenzene	0.0399	0.100						0.04133	3.64	30	J

Work Order: 1908307
CLIENT: Blaes Environmental
Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID	1908307-002AREP	SampType:	REP	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53484		
Client ID:	EFFLUENT Vapor D	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058441		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.400						0	0	30	
Naphthalene	ND	0.100						0	0	30	
1,2,3-Trichlorobenzene	ND	0.400						0	0	30	
Surr: Dibromofluoromethane	2.55		2.500		102	61.1	128		0		
Surr: Toluene-d8	2.52		2.500		101	68.2	129		0		
Surr: 1-Bromo-4-fluorobenzene-BFB	2.42		2.500		96.8	64.7	128		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID	LCS-25610	SampType:	LCS	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53484		
Client ID:	LCSW	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058445		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.12	0.100	2.000	0	106	38.8	143				
Chloromethane	1.98	0.100	2.000	0	99.2	42.5	131				
Vinyl chloride	2.08	0.0200	2.000	0	104	56.2	130				
Bromomethane	2.44	0.100	2.000	0	122	45.4	138				
Trichlorofluoromethane (CFC-11)	2.15	0.100	2.000	0	108	64.7	129				
Chloroethane	2.13	0.100	2.000	0	107	62.5	123				
1,1-Dichloroethene	2.12	0.100	2.000	0	106	60.7	146				
Methylene chloride	2.09	0.100	2.000	0	105	60.3	135				
trans-1,2-Dichloroethene	2.14	0.100	2.000	0	107	71.3	129				
Methyl tert-butyl ether (MTBE)	1.90	0.100	2.000	0	95.1	59.3	138				
1,1-Dichloroethane	2.13	0.100	2.000	0	107	71.3	129				
cis-1,2-Dichloroethene	2.11	0.100	2.000	0	106	67.5	127				
Chloroform	2.11	0.100	2.000	0	106	70.3	123				
1,1,1-Trichloroethane (TCA)	2.08	0.100	2.000	0	104	67.9	134				
1,1-Dichloropropene	2.12	0.100	2.000	0	106	72.1	133				
Carbon tetrachloride	2.04	0.100	2.000	0	102	64.4	133				
1,2-Dichloroethane (EDC)	2.00	0.100	2.000	0	99.9	65.8	126				
Benzene	2.06	0.100	2.000	0	103	67.1	132				



Work Order: 1908307
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID	LCS-25610	SampType:	LCS	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53484
Client ID:	LCSW	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058445

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	2.03	0.0500	2.000	0	102	71.9	130				
1,2-Dichloropropane	1.99	0.100	2.000	0	99.3	71.9	131				
Bromodichloromethane	2.02	0.100	2.000	0	101	70	130				
Dibromomethane	2.08	0.100	2.000	0	104	74.2	125				
cis-1,3-Dichloropropene	1.99	0.100	2.000	0	99.5	62.8	135				
Toluene	2.06	0.100	2.000	0	103	73.6	127				
trans-1,3-Dichloropropylene	1.93	0.100	2.000	0	96.3	58.1	138				
1,1,2-Trichloroethane	2.10	0.100	2.000	0	105	65.4	128				
1,3-Dichloropropane	2.04	0.100	2.000	0	102	71.9	131				
Tetrachloroethene (PCE)	2.14	0.100	2.000	0	107	52.4	140				
Dibromochloromethane	2.01	0.100	2.000	0	100	68.7	139				
1,2-Dibromoethane (EDB)	2.05	0.0250	2.000	0	102	71.2	129				
Chlorobenzene	2.03	0.100	2.000	0	101	77.2	122				
1,1,1,2-Tetrachloroethane	1.99	0.100	2.000	0	99.6	76.2	130				
Ethylbenzene	2.05	0.100	2.000	0	102	78	127				
m,p-Xylene	4.11	0.100	4.000	0	103	77.5	130				
o-Xylene	2.01	0.100	2.000	0	101	77.6	126				
Styrene	2.00	0.100	2.000	0	100	66.8	137				
Isopropylbenzene	2.02	0.100	2.000	0	101	75.9	133				
Bromoform	1.91	0.100	2.000	0	95.6	54.1	146				
1,1,2,2-Tetrachloroethane	2.06	0.100	2.000	0	103	68	134				
n-Propylbenzene	2.10	0.100	2.000	0	105	77.1	133				
Bromobenzene	2.02	0.100	2.000	0	101	71.1	131				
1,3,5-Trimethylbenzene	2.04	0.100	2.000	0	102	76.2	133				
2-Chlorotoluene	2.02	0.100	2.000	0	101	67.1	137				
4-Chlorotoluene	2.03	0.100	2.000	0	101	70.7	132				
tert-Butylbenzene	2.00	0.100	2.000	0	100	71.3	139				
1,2,3-Trichloropropane	2.04	0.100	2.000	0	102	70.8	132				
1,2,4-Trichlorobenzene	2.03	0.200	2.000	0	102	61.4	139				
sec-Butylbenzene	2.02	0.100	2.000	0	101	77.4	136				
4-Isopropyltoluene	2.02	0.100	2.000	0	101	78.1	131				

Work Order: 1908307
 CLIENT: Blaes Environmental
 Project: Circle K # 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID	LCS-25610	SampType:	LCS	Units:	µg/L	Prep Date:	8/23/2019	RunNo:	53484		
Client ID:	LCSW	Batch ID:	25610			Analysis Date:	8/23/2019	SeqNo:	1058445		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3-Dichlorobenzene	2.07	0.100	2.000	0	104	73.5	125				
1,4-Dichlorobenzene	2.07	0.100	2.000	0	104	71.4	125				
n-Butylbenzene	2.04	0.100	2.000	0	102	69.8	138				
1,2-Dichlorobenzene	2.08	0.100	2.000	0	104	74.2	123				
1,2-Dibromo-3-chloropropane	2.01	0.100	2.000	0	101	53.6	155				
1,2,4-Trimethylbenzene	2.02	0.100	2.000	0	101	72.3	133				
Hexachlorobutadiene	2.12	0.400	2.000	0	106	60.9	141				
Naphthalene	2.07	0.100	2.000	0	104	58.2	140				
1,2,3-Trichlorobenzene	2.04	0.400	2.000	0	102	61.3	133				
Surr: Dibromofluoromethane	2.58		2.500		103	56.4	141				
Surr: Toluene-d8	2.53		2.500		101	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.52		2.500		101	64.7	128				

Client Name: **BLAES**
 Logged by: **Carissa True**

Work Order Number: **1908307**
 Date Received: **8/22/2019 12:27:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air sample
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/19 Page: 1 of 1
Project Name: C1ACE K # 6049

Laboratory Project No (Internal): 1908307
Special Remarks:

Project No: 202-6049-10

Collected by: DAN BUES

Location: DAN BUES LEONARDI, UT

Report to (PM): DAN BUES

Sample Disposal: Return to client Disposal by lab (after 30 days)

PM Email: DBUES@BUESANALYTICAL.COM

Client: BUES ENVIRONMENTAL
Address: 45 E MONTGOMERY WAY
City, State, zip: PHOENIX, ARIZONA 85012
Telephone: 602-288-0707

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	FULLUM													Comments	
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)		
1 INFILTRANT VAPOR	8/22/19	6:45	A	X	X													VAPOR
2 EFFLUENT VAPOR	8/22/19	6:44	A	X	X													VAPOR
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	8/22/19	x	8/22/19
Relinquished	Date/Time	Received	Date/Time
x	8/22/19	x	8/22/19

Turn-around Time:

- Standard
- 3 Day
- 2 Day
- Next Day
- Same Day (specify)

APPENDIX I

2021 OPERATION AND MAINTENANCE SHEETS

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/8/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 2:00 PM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 5:00 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?		Oxidizer Start of Event			AS Operational?		None		
Fault Indicator:		None			Fault Indicator:				
System Adjusted Yes/No		Initial	Final		System Adjusted Yes/No		Initial	Final	
VE Hour Meter:		8915.6			AS Hour Meter:				
Time:		2:30 PM			Time:				
Temp Control (F°):		778			System Pressure: (PSI)				
Dilution Temp (F°):		701							
High Limit Temp (F°):		696			AS Well ID	Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):					AS Well ID	Initial	Final	Initial	Final
Total Flow-Recorder:		202							
Total Vacuum: ("Hg /"H ₂ O)		11" Hg							
Recirc Valve (% open):		5% open							
Dilution Valve (% open):		Closed							
Installed aboveground hose to MW-2									
System startup after hiatus period since 2019									
Barricades cover above ground hose to well									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?		No							
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:		Cal Gas:							
VE Well ID	PID (ppm)		Flow (cfm)		Vac ("H ₂ O)				
VE Well ID	Initial	Final	Initial	Final	Initial	Final			
MW-1							CONTROLLER SET POINTS		
MW-2			Open				Gas Train/Process Temp (F°):		
VE-1							Auto Dilution (F°):		
VE-2							High Temp (F°):		
VE-3							UTILITY READING		
VE-4							Natural Gas (ft ³):		
							Propane (% full):		
							Electricity (kWh):		



REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC				DATE: 8/9/2021		Page: 1 of 1			
PROJECT #: 202-6049-06				PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater				TIME ON-SITE: 11:00 AM					
LOCATION: Kennewick, Washington				TIME OFF-SITE: 1:00 PM					
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM				AIR SPARGE SYSTEM					
VE Operational?				AS Operational?					
Yes				None					
Fault Indicator:				Fault Indicator:					
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No			
VE Hour Meter:				AS Hour Meter:					
				8936.9					
Time:				Time:					
				11:30am					
Temp Control (F°):				System Pressure: (PSI)					
				773					
Dilution Temp (F°):									
				704					
High Limit Temp (F°):				AS Well ID		Pressure (psi)		Flow (cfm)	
				704		Initial		Final	
Total Flow-Manifold (cfm):				X		Initial		Final	
Total Flow-Recorder:				200					
Total Vacuum: ("Hg /"H ₂ O)				10" Hg					
Recirc Valve (% open):				5% open					
Dilution Valve (% open):				Closed					
System Running Well									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?				No					
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:				Cal Gas:					
VE Well ID	PID (ppm)		Flow (cfm)		Vac ("H ₂ O)				
X	Initial	Final	Initial	Final	Initial	Final			
MW-1							CONTROLLER SET POINTS		
MW-2			Open				Gas Train/Process Temp (F°):		
VE-1							Auto Dilution (F°):		
VE-2							High Temp (F°):		
VE-3							UTILITY READING		
VE-4							Natural Gas (ft ³):		
							Propane (% full):		
							Electricity (kWh):		

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/11/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 11:00 AM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 12:30pm				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:				8985		AS Hour Meter:			
Time:				11:45am		Time:			
Temp Control (F°):				775		System Pressure: (PSI)			
Dilution Temp (F°):				702					
High Limit Temp (F°):				702		AS Well ID		Flow (cfm)	
Total Flow-Manifold (cfm):						Initial		Initial Final	
Total Flow-Recorder:				199					
Total Vacuum: ("Hg /"H ₂ O)				11" Hg					
Recirc Valve (% open):				5% open					
Dilution Valve (% open):				Closed					
System Running Well									
Vapor Sampled Influent and Effluent (running on well MW-2)									
Switched to vapor well VE-1B from MW-2 and kept running									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					Yes				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):					18				
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
 		Initial Final		Initial Final		Initial Final			
MW-1					CONTROLLER SET POINTS				
MW-2					Gas Train/Process Temp (F°):				
VE-1					Auto Dilution (F°):				
VE-2					High Temp (F°):				
VE-3					UTILITY READING				
VE-4					Natural Gas (ft ³):				
					Propane (% full):				
					Electricity (kWh):				

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/11/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 11:00 AM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 12:30pm				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		8985.2				AS Hour Meter:			
Time:		11:48am				Time:			
Temp Control (F°):		768				System Pressure: (PSI)			
Dilution Temp (F°):		704							
High Limit Temp (F°):		704				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Initial	
Total Flow-Recorder:		193						Final	
Total Vacuum: ("Hg /"H ₂ O)		14" Hg						Initial	
Recirc Valve (% open):		5% open						Final	
Dilution Valve (% open):		10% open							
Switched to vapor well VE-1B from MW-2 and kept running									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					No				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
VE Well ID		Initial		Final		Initial		Final	
MW-1					CONTROLLER SET POINTS				
MW-2					Gas Train/Process Temp (F°):				
VE-1A					Auto Dilution (F°):				
VE-1B					High Temp (F°):				
VE-2					UTILITY READING				
VE-3					Natural Gas (ft ³):				
VE-4					Propane (% full):				
					Electricity (kWh):				

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION												
CLIENT: CIRCLE K STORES INC					DATE: 8/15/2021		Page: 1 of 1					
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes							
SITE: 6006 West Clearwater					TIME ON-SITE: 1:45 AM							
LOCATION: Kennewick, Washington					TIME OFF-SITE: 2:35 AM							
EQUIPMENT DETAIL												
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM							
VE Operational?					Yes		AS Operational?			None		
Fault Indicator:					None		Fault Indicator:					
System Adjusted Yes/No			Initial		Final		System Adjusted Yes/No			Initial		Final
VE Hour Meter:					9083.2		AS Hour Meter:					
Time:					2:15 PM		Time:					
Temp Control (F°):					773		System Pressure: (PSI)					
Dilution Temp (F°):					702							
High Limit Temp (F°):					703		AS Well ID	Pressure (psi)		Flow (cfm)		
Total Flow-Manifold (cfm):							AS Well ID	Initial	Final	Initial	Final	
Total Flow-Recorder:					195							
Total Vacuum: ("Hg /"H ₂ O)					11" Hg							
Recirc Valve (% open):					5% open							
Dilution Valve (% open):					10% open							
System Running Well on VE-1B												
Vapor Sampled Influent and Effluent (running on well VE-1B)												
OXIDIZER VAPOR MONITORING												
Vapor Collected for Lab?					Yes							
Effluent PID (ppm):												
Post-Dilution INF PID (ppm):												
Influent PID (ppm):					27							
PID Model:					Cal Gas:							
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)						
AS Well ID		Initial	Final	Initial	Final	Initial	Final					
MW-1								CONTROLLER SET POINTS				
MW-2								Gas Train/Process Temp (F°):				
VE-1A								Auto Dilution (F°):				
VE-1B				Open				High Temp (F°):				
VE-2								UTILITY READING				
VE-3								Natural Gas (ft ³):				
								Propane (% full):				
								Electricity (kWh):				

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION							
CLIENT: CIRCLE K STORES INC				DATE: 8/15/2021		Page: 1 of 1	
PROJECT #: 202-6049-06				PERSONNEL: Dan Blaes			
SITE: 6006 West Clearwater				TIME ON-SITE: 1:45 AM			
LOCATION: Kennewick, Washington				TIME OFF-SITE: 2:35 AM			
EQUIPMENT DETAIL							
VAPOR EXTRACTION SYSTEM				AIR SPARGE SYSTEM			
VE Operational?				AS Operational?			
Yes				None			
Fault Indicator:				Fault Indicator:			
None							
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No	
VE Hour Meter:		9083.3		AS Hour Meter:			
Time:		2:18pm		Time:			
Temp Control (F°):		763		System Pressure: (PSI)			
Dilution Temp (F°):		704					
High Limit Temp (F°):		704		AS Well ID		Pressure (psi)	
				XXXX		Flow (cfm)	
Total Flow-Manifold (cfm):				Initial		Final	
Total Flow-Recorder:		194		Initial		Final	
Total Vacuum: ("Hg /"H ₂ O)		13" Hg					
Recirc Valve (% open):		5% open					
Dilution Valve (% open):		10% open					
Started Running Well VE-1A							
OXIDIZER VAPOR MONITORING							
Vapor Collected for Lab?		No					
Effluent PID (ppm):							
Post-Dilution INF PID (ppm):							
Influent PID (ppm):							
PID Model:		Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)	
XXXX		Initial Final		Initial Final		Initial Final	
MW-1						CONTROLLER SET POINTS	
MW-2						Gas Train/Process Temp (F°):	
VE-1A				Open		Auto Dilution (F°):	
VE-1B						High Temp (F°):	
VE-2						UTILITY READING	
VE-3						Natural Gas (ft ³):	
						Propane (% full):	
						Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION												
CLIENT: CIRCLE K STORES INC					DATE: 8/17/2021		Page: 1 of 1					
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes							
SITE: 6006 West Clearwater					TIME ON-SITE: 6:30pm							
LOCATION: Kennewick, Washington					TIME OFF-SITE: 7:00pm							
EQUIPMENT DETAIL												
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM							
VE Operational?					No - Restarted		AS Operational?			None		
Fault Indicator:					Air Pressure		Fault Indicator:					
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Initial		Final		
VE Hour Meter:					9084.2		AS Hour Meter:					
Time:					6:30pm		Time:					
Temp Control (F°):					772		System Pressure: (PSI)					
Dilution Temp (F°):					742							
High Limit Temp (F°):					743		AS Well ID		Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):							XXXX		Initial		Final	
Total Flow-Recorder:					195							
Total Vacuum: ("Hg /"H ₂ O)					11"Hg							
Recirc Valve (% open):					5% open							
Dilution Valve (% open):					10% open							
Restarted oxidizer on VE-1A												
System was down on arrival and had only operated												
for about 1 hour on 8-15-21 after swithing												
to this well.												
OXIDIZER VAPOR MONITORING												
Vapor Collected for Lab?					No							
Effluent PID (ppm):												
Post-Dilution INF PID (ppm):												
Influent PID (ppm):												
PID Model:							Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)						
XXXX		Initial Final		Initial Final		Initial Final						
MW-1									CONTROLLER SET POINTS			
MW-2									Gas Train/Process Temp (F°):			
VE-1A					Open				Auto Dilution (F°):			
VE-1B									High Temp (F°):			
VE-2									UTILITY READING			
VE-3									Natural Gas (ft ³):			
VE-4									Propane (% full):			
									Electricity (kWh):			

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/19/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 6:00pm				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 7:30pm				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		9132.8				AS Hour Meter:			
Time:		7:00pm				Time:			
Temp Control (F°):		775				System Pressure: (PSI)			
Dilution Temp (F°):		730							
High Limit Temp (F°):		731				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Initial	
Total Flow-Recorder:		190						Final	
Total Vacuum: ("Hg /"H ₂ O)		10"Hg						Initial	
Recirc Valve (% open):		5% open						Final	
Dilution Valve (% open):		10% open							
Operating on VE-1A									
Monitoring system and taking data readings									
Maintenance on Blower									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					No				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
 		Initial		Final		Initial		Final	
MW-1								CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1A				Open				Auto Dilution (F°):	
VE-1B								High Temp (F°):	
VE-2								UTILITY READING	
VE-3								Natural Gas (ft ³):	
VE-4								Propane (% full):	
								Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION							
CLIENT: CIRCLE K STORES INC				DATE: 8/20/2021		Page: 1 of 1	
PROJECT #: 202-6049-06				PERSONNEL: Dan Blaes			
SITE: 6006 West Clearwater				TIME ON-SITE: 7:30 AM			
LOCATION: Kennewick, Washington				TIME OFF-SITE: 9:30 AM			
EQUIPMENT DETAIL							
VAPOR EXTRACTION SYSTEM				AIR SPARGE SYSTEM			
VE Operational? Yes				AS Operational? None			
Fault Indicator: None				Fault Indicator:			
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No	
VE Hour Meter:				9146.8		AS Hour Meter:	
Time:				9:00 AM		Time:	
Temp Control (F°):				773		System Pressure: (PSI)	
Dilution Temp (F°):				736			
High Limit Temp (F°):				736		AS Well ID	
Total Flow-Manifold (cfm):						Pressure (psi)	
Total Flow-Recorder:				195		Flow (cfm)	
Total Vacuum: ("Hg /"H ₂ O)				11"Hg		Initial	
Recirc Valve (% open):				5% open		Final	
Dilution Valve (% open):				10% open		Initial	
						Final	
Vapor sampled VE-1A just before switching to well VE-2.							
Data from VE-2 on separate sheet							
OXIDIZER VAPOR MONITORING							
Vapor Collected for Lab? Yes							
Effluent PID (ppm):							
Post-Dilution INF PID (ppm):							
Influent PID (ppm):				64			
PID Model:				Cal Gas:			
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)	
 		Initial Final		Initial Final		Initial Final	
MW-1							
MW-2							
VE-1A		Open					
VE-1B							
VE-2							
VE-3							
VE-4							
CONTROLLER SET POINTS							
Gas Train/Process Temp (F°):							
Auto Dilution (F°):							
High Temp (F°):							
UTILITY READING							
Natural Gas (ft ³):							
Propane (% full):							
Electricity (kWh):							

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION							
CLIENT: CIRCLE K STORES INC				DATE: 8/20/2021		Page: 1 of 1	
PROJECT #: 202-6049-06				PERSONNEL: Dan Blaes			
SITE: 6006 West Clearwater				TIME ON-SITE: 7:30 AM			
LOCATION: Kennewick, Washington				TIME OFF-SITE: 9:30 AM			
EQUIPMENT DETAIL							
VAPOR EXTRACTION SYSTEM				AIR SPARGE SYSTEM			
VE Operational?				AS Operational?			
Yes				None			
Fault Indicator:				Fault Indicator:			
None							
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No	
VE Hour Meter:		9146.9		AS Hour Meter:			
Time:		9:02am		Time:			
Temp Control (F°):		753		System Pressure: (PSI)			
Dilution Temp (F°):		704					
High Limit Temp (F°):		705		AS Well ID		Pressure (psi)	
						Flow (cfm)	
Total Flow-Manifold (cfm):				XXXXXX		Initial	
						Final	
Total Flow-Recorder:		183				Initial	
						Final	
Total Vacuum: ("Hg /"H ₂ O)		9"Hg					
Recirc Valve (% open):		5% open					
Dilution Valve (% open):		10% open					
Switched to vapor well VE-2 from VE-1A and kept running.							
OXIDIZER VAPOR MONITORING							
Vapor Collected for Lab?		No					
Effluent PID (ppm):							
Post-Dilution INF PID (ppm):							
Influent PID (ppm):							
PID Model:				Cal Gas:			
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)	
XXXXXX		Initial Final		Initial Final		Initial Final	
MW-1						CONTROLLER SET POINTS	
MW-2						Gas Train/Process Temp (F°):	
VE-1A						Auto Dilution (F°):	
VE-1B						High Temp (F°):	
VE-2		Open				UTILITY READING	
VE-3						Natural Gas (ft ³):	
VE-4						Propane (% full):	
						Electricity (kWh):	

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/23/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 1;30 pm				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 3;00pm				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes /No		Initial		Final		System Adjusted Yes /No		Final	
VE Hour Meter:		9224.6				AS Hour Meter:			
Time:		2:35pm				Time:			
Temp Control (F°):		778				System Pressure: (PSI)			
Dilution Temp (F°):		704							
High Limit Temp (F°):		704				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						X		Flow (cfm)	
Total Flow-Recorder:		196				Initial		Final	
Total Vacuum: ("Hg /"H ₂ O)		9.5" Hg				Initial		Final	
Recirc Valve (% open):		5% open				Initial		Final	
Dilution Valve (% open):		2% open				Initial		Final	
Switched to using VE-4 from VE-2									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					No				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
X		Initial Final		Initial Final		Initial Final			
MW-1					CONTROLLER SET POINTS				
MW-2					Gas Train/Process Temp (F°):				
VE-1A					Auto Dilution (F°):				
VE-1B					High Temp (F°):				
VE-2					UTILITY READING				
VE-3					Natural Gas (ft ³):				
VE-4					Propane (% full):				
					Electricity (kWh):				

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/26/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 11:01 AM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 12:06pm				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		9293.3				AS Hour Meter:			
Time:		11:25am				Time:			
Temp Control (F°):		775				System Pressure: (PSI)			
Dilution Temp (F°):		695							
High Limit Temp (F°):		695				AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Initial	
Total Flow-Recorder:		190						Final	
Total Vacuum: ("Hg /"H ₂ O)		10" Hg						Initial	
Recirc Valve (% open):		5% open						Final	
Dilution Valve (% open):		2% open							
Vapor Sampled VE-4 before swithcing to VE-3									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					Yes				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):					11				
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
 		Initial		Final		Initial		Final	
MW-1									
MW-2									
VE-1A								CONTROLLER SET POINTS	
VE-1B								Gas Train/Process Temp (F°):	
VE-2								Auto Dilution (F°):	
VE-3								High Temp (F°):	
VE-4		Open						UTILITY READING	
								Natural Gas (ft ³):	
								Propane (% full):	
								Electricity (kWh):	



REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/23/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 1;30 pm				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 3;00pm				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes /No		Initial		Final		System Adjusted Yes /No		Final	
VE Hour Meter:				9224.4		AS Hour Meter:			
Time:				2:30pm		Time:			
Temp Control (F°):				763		System Pressure: (PSI)			
Dilution Temp (F°):				709					
High Limit Temp (F°):				708		AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						X		Flow (cfm)	
Total Flow-Recorder:				188		Initial		Final	
Total Vacuum: ("Hg /"H ₂ O)				10" Hg				Initial	
Recirc Valve (% open):				5% open				Final	
Dilution Valve (% open):				5% open					
Vapor Sampled well VE-2 as Influent/Effluent									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					Yes				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):					25				
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
X		Initial		Final		Initial		Final	
MW-1					CONTROLLER SET POINTS				
MW-2					Gas Train/Process Temp (F°):				
VE-1A					Auto Dilution (F°):				
VE-1B					High Temp (F°):				
VE-2					UTILITY READING				
VE-3					Natural Gas (ft ³):				
VE-4					Propane (% full):				
					Electricity (kWh):				

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION												
CLIENT: CIRCLE K STORES INC					DATE: 8/26/2021		Page: 1 of 1					
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes							
SITE: 6006 West Clearwater					TIME ON-SITE: 11:01 AM							
LOCATION: Kennewick, Washington					TIME OFF-SITE: 12:06pm							
EQUIPMENT DETAIL												
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM							
VE Operational?					Yes		AS Operational?			None		
Fault Indicator:					None		Fault Indicator:					
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Initial		Final		
VE Hour Meter:					9293.5		AS Hour Meter:					
Time:					11:28am		Time:					
Temp Control (F°):					772		System Pressure: (PSI)					
Dilution Temp (F°):					694							
High Limit Temp (F°):					694		AS Well ID		Pressure (psi)		Flow (cfm)	
Total Flow-Manifold (cfm):							X		Initial		Final	
Total Flow-Recorder:					192							
Total Vacuum: ("Hg /"H ₂ O)					10" Hg							
Recirc Valve (% open):					5% open							
Dilution Valve (% open):					2% open							
Swithed to well VE3 and started extracting from that well.												
OXIDIZER VAPOR MONITORING												
Vapor Collected for Lab?					No							
Effluent PID (ppm):												
Post-Dilution INF PID (ppm):												
Influent PID (ppm):												
PID Model:							Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)						
X		Initial		Final		Initial		Final		Initial		
MW-1												
MW-2												
VE-1A										CONTROLLER SET POINTS		
VE-1B										Gas Train/Process Temp (F°):		
VE-2										Auto Dilution (F°):		
VE-3				Open						High Temp (F°):		
VE-4										UTILITY READING		
										Natural Gas (ft ³):		
										Propane (% full):		
										Electricity (kWh):		

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC				DATE: 8/30/2021		Page: 1 of 1			
PROJECT #: 202-6049-06				PERSONNEL: Dan Blaes					
SITE: 6006 West Clearwater				TIME ON-SITE: 1:46 PM					
LOCATION: Kennewick, Washington				TIME OFF-SITE: 3:37 PM					
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM				AIR SPARGE SYSTEM					
VE Operational?				AS Operational?					
Yes				None					
Fault Indicator:				Fault Indicator:					
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No			
VE Hour Meter:				AS Hour Meter:					
				9393					
Time:				Time:					
				3:07 PM					
Temp Control (F°):				System Pressure: (PSI)					
Dilution Temp (F°):									
				702					
High Limit Temp (F°):				AS Well ID		Pressure (psi)		Flow (cfm)	
						Initial		Final	
Total Flow-Manifold (cfm):									
Total Flow-Recorder:									
Total Vacuum: ("Hg /"H ₂ O)									
Recirc Valve (% open):									
Dilution Valve (% open):									
Vapor Sampled VE-3 before switching to next vapor well MW-1									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?									
Yes									
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):				21					
PID Model:				Cal Gas:					
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
		Initial		Final		Initial		Final	
MW-1									
MW-2									
VE-1A									
VE-1B									
VE-2									
VE-3		Open							
VE-4									
CONTROLLER SET POINTS									
Gas Train/Process Temp (F°):									
Auto Dilution (F°):									
High Temp (F°):									
UTILITY READING									
Natural Gas (ft ³):									
Propane (% full):									
Electricity (kWh):									

REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 8/30/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 1:46 PM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 3:37 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:		9393.2				AS Hour Meter:			
Time:		3:12 PM				Time:			
Temp Control (F°):		774				System Pressure: (PSI)			
Dilution Temp (F°):		701							
High Limit Temp (F°):		701				AS Well ID		Flow (cfm)	
Total Flow-Manifold (cfm):						XXXXXX		Initial Final	
Total Flow-Recorder:		196						Initial Final	
Total Vacuum: ("Hg /"H ₂ O)		10" Hg						Initial Final	
Recirc Valve (% open):		5% open						Initial Final	
Dilution Valve (% open):		2% open						Initial Final	
Started vapor extraction on well MW-1									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					No				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
XXXXXX		Initial Final		Initial Final		Initial Final			
MW-1				Open				CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1A								Auto Dilution (F°):	
VE-1B								High Temp (F°):	
VE-2								UTILITY READING	
VE-3								Natural Gas (ft ³):	
VE-4								Propane (% full):	
								Electricity (kWh):	



REMEDIATION SYSTEM OPERATION AND MAINTENANCE RECORD

PROJECT INFORMATION									
CLIENT: CIRCLE K STORES INC					DATE: 9/2/2021		Page: 1 of 1		
PROJECT #: 202-6049-06					PERSONNEL: Dan Blaes				
SITE: 6006 West Clearwater					TIME ON-SITE: 11:50 AM				
LOCATION: Kennewick, Washington					TIME OFF-SITE: 1:09 PM				
EQUIPMENT DETAIL									
VAPOR EXTRACTION SYSTEM					AIR SPARGE SYSTEM				
VE Operational?					AS Operational?				
Yes					None				
Fault Indicator:					Fault Indicator:				
None									
System Adjusted Yes/No		Initial		Final		System Adjusted Yes/No		Final	
VE Hour Meter:				9462.4		AS Hour Meter:			
Time:				12:25pm		Time:			
Temp Control (F°):				775		System Pressure: (PSI)			
Dilution Temp (F°):				717					
High Limit Temp (F°):				717		AS Well ID		Pressure (psi)	
Total Flow-Manifold (cfm):						AS Well ID		Flow (cfm)	
Total Flow-Recorder:				187		Initial		Final	
Total Vacuum: ("Hg /"H ₂ O)				9" HG		Initial		Final	
Recirc Valve (% open):				5% open		Initial		Final	
Dilution Valve (% open):				2% open		Initial		Final	
Vapor sampled Influent and Effluent operating on well MW-1.									
After sampling shut down system and removed aboveground hoses and barricades									
OXIDIZER VAPOR MONITORING									
Vapor Collected for Lab?					Yes				
Effluent PID (ppm):									
Post-Dilution INF PID (ppm):									
Influent PID (ppm):									
PID Model:					Cal Gas:				
VE Well ID		PID (ppm)		Flow (cfm)		Vac ("H ₂ O)			
VE Well ID		Initial Final		Initial Final		Initial Final			
MW-1				Open				CONTROLLER SET POINTS	
MW-2								Gas Train/Process Temp (F°):	
VE-1A								Auto Dilution (F°):	
VE-1B								High Temp (F°):	
VE-2								UTILITY READING	
VE-3								Natural Gas (ft ³):	
VE-4								Propane (% full):	
								Electricity (kWh):	

APPENDIX J

2021 VAPOR LABORATORY REPORTS



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 2108161

August 18, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/11/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Date: 08/18/2021

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 2108161

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108161-001	Influent	08/11/2021 11:45 AM	08/11/2021 4:23 PM
2108161-002	Effluent	08/11/2021 11:44 AM	08/11/2021 4:23 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2108161
Date Reported: 8/18/2021

Client: Blaes Environmental

Collection Date: 8/11/2021 11:45:00 AM

Project: Circle K #6049

Lab ID: 2108161-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
					Batch ID: 33343	Analyst: CR
Dichlorodifluoromethane	ND	0.125		µg/L	1	8/13/2021 10:46:03 AM
Chloromethane	ND	0.0750		µg/L	1	8/13/2021 10:46:03 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/13/2021 10:46:03 AM
Bromomethane	ND	0.120		µg/L	1	8/13/2021 10:46:03 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Chloroethane	ND	0.100		µg/L	1	8/13/2021 10:46:03 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Acetone	0.919	0.600		µg/L	1	8/13/2021 10:46:03 AM
Methylene chloride	ND	0.0750		µg/L	1	8/13/2021 10:46:03 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
(MEK) 2-Butanone	0.273	0.150		µg/L	1	8/13/2021 10:46:03 AM
Chloroform	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/13/2021 10:46:03 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/13/2021 10:46:03 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/13/2021 10:46:03 AM
Benzene	ND	0.0440		µg/L	1	8/13/2021 10:46:03 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Dibromomethane	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Toluene	0.157	0.0750		µg/L	1	8/13/2021 10:46:03 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/13/2021 10:46:03 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/13/2021 10:46:03 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/13/2021 10:46:03 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/13/2021 10:46:03 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/13/2021 10:46:03 AM
2-Hexanone	ND	0.100		µg/L	1	8/13/2021 10:46:03 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/13/2021 10:46:03 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/13/2021 10:46:03 AM
m,p-Xylene	0.123	0.100		µg/L	1	8/13/2021 10:46:03 AM
o-Xylene	0.0703	0.0500		µg/L	1	8/13/2021 10:46:03 AM

Original



Analytical Report

Work Order: 2108161
Date Reported: 8/18/2021

Client: Blaes Environmental

Collection Date: 8/11/2021 11:45:00 AM

Project: Circle K #6049

Lab ID: 2108161-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33343

Analyst: CR

Styrene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Bromoform	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/13/2021 10:46:03 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Bromobenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,3,5-Trimethylbenzene	0.0259	0.0250		µg/L	1	8/13/2021 10:46:03 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/13/2021 10:46:03 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/13/2021 10:46:03 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/13/2021 10:46:03 AM
1,2,4-Trimethylbenzene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/13/2021 10:46:03 AM
Naphthalene	ND	0.125		µg/L	1	8/13/2021 10:46:03 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/13/2021 10:46:03 AM
Surr: Dibromofluoromethane	102	80 - 121		%Rec	1	8/13/2021 10:46:03 AM
Surr: Toluene-d8	100	80 - 120		%Rec	1	8/13/2021 10:46:03 AM
Surr: 1-Bromo-4-fluorobenzene	98.8	80 - 120		%Rec	1	8/13/2021 10:46:03 AM

Gasoline by NWTPH-Gx

Batch ID: 33343

Analyst: CR

Gasoline	ND	5.00		µg/L	1	8/13/2021 10:46:03 AM
Surr: 4-Bromofluorobenzene	97.8	65 - 135		%Rec	1	8/13/2021 10:46:03 AM
Surr: Toluene-d8	102	65 - 135		%Rec	1	8/13/2021 10:46:03 AM



Client: Blaes Environmental

Collection Date: 8/11/2021 11:44:00 AM

Project: Circle K #6049

Lab ID: 2108161-002

Matrix: Air

Client Sample ID: Effluent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33343

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/13/2021 7:14:31 AM
Chloromethane	ND	0.0750		µg/L	1	8/13/2021 7:14:31 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/13/2021 7:14:31 AM
Bromomethane	ND	0.120		µg/L	1	8/13/2021 7:14:31 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Chloroethane	ND	0.100		µg/L	1	8/13/2021 7:14:31 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Acetone	1.48	0.600		µg/L	1	8/13/2021 7:14:31 AM
Methylene chloride	ND	0.0750		µg/L	1	8/13/2021 7:14:31 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
(MEK) 2-Butanone	0.963	0.150		µg/L	1	8/13/2021 7:14:31 AM
Chloroform	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/13/2021 7:14:31 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/13/2021 7:14:31 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/13/2021 7:14:31 AM
Benzene	ND	0.0440		µg/L	1	8/13/2021 7:14:31 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Dibromomethane	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Toluene	0.442	0.0750		µg/L	1	8/13/2021 7:14:31 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/13/2021 7:14:31 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/13/2021 7:14:31 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/13/2021 7:14:31 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/13/2021 7:14:31 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/13/2021 7:14:31 AM
2-Hexanone	ND	0.100		µg/L	1	8/13/2021 7:14:31 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/13/2021 7:14:31 AM
Ethylbenzene	0.0763	0.0400		µg/L	1	8/13/2021 7:14:31 AM
m,p-Xylene	0.272	0.100		µg/L	1	8/13/2021 7:14:31 AM
o-Xylene	0.106	0.0500		µg/L	1	8/13/2021 7:14:31 AM



Client: Blaes Environmental

Collection Date: 8/11/2021 11:44:00 AM

Project: Circle K #6049

Lab ID: 2108161-002

Matrix: Air

Client Sample ID: Effluent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33343

Analyst: CR

Styrene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Bromoform	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/13/2021 7:14:31 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Bromobenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,3,5-Trimethylbenzene	ND	0.0250		µg/L	1	8/13/2021 7:14:31 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/13/2021 7:14:31 AM
1,2,4-Trichlorobenzene	0.114	0.0750		µg/L	1	8/13/2021 7:14:31 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/13/2021 7:14:31 AM
1,2,4-Trimethylbenzene	0.0741	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/13/2021 7:14:31 AM
Naphthalene	0.273	0.125		µg/L	1	8/13/2021 7:14:31 AM
1,2,3-Trichlorobenzene	0.187	0.0700	B	µg/L	1	8/13/2021 7:14:31 AM
Surr: Dibromofluoromethane	102	80 - 121		%Rec	1	8/13/2021 7:14:31 AM
Surr: Toluene-d8	100	80 - 120		%Rec	1	8/13/2021 7:14:31 AM
Surr: 1-Bromo-4-fluorobenzene	98.6	80 - 120		%Rec	1	8/13/2021 7:14:31 AM

Gasoline by NWTPH-Gx

Batch ID: 33343

Analyst: CR

Gasoline	9.08	5.00		µg/L	1	8/13/2021 7:14:31 AM
Surr: 4-Bromofluorobenzene	99.0	65 - 135		%Rec	1	8/13/2021 7:14:31 AM
Surr: Toluene-d8	101	65 - 135		%Rec	1	8/13/2021 7:14:31 AM

Work Order: 2108161
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33343	SampType: LCS	Units: µg/L				Prep Date: 8/13/2021	RunNo: 69314				
Client ID: LCSW	Batch ID: 33343					Analysis Date: 8/13/2021	SeqNo: 1404449				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	1.62	0.125	2.000	0	81.1	80	120				
Chloromethane	1.97	0.0750	2.000	0	98.4	80	120				
Vinyl chloride	2.02	0.0350	2.000	0	101	80	120				
Bromomethane	2.02	0.120	2.000	0	101	80	120				
Trichlorofluoromethane (CFC-11)	2.14	0.0500	2.000	0	107	80	120				
Chloroethane	1.98	0.100	2.000	0	99.0	80	120				
1,1-Dichloroethene	2.20	0.0500	2.000	0	110	80	120				
Acetone	5.17	0.600	5.000	0	103	80	120				
Methylene chloride	2.15	0.0750	2.000	0	107	80	120				
trans-1,2-Dichloroethene	2.17	0.0500	2.000	0	108	80	120				
Methyl tert-butyl ether (MTBE)	2.09	0.0500	2.000	0	104	80	120				
1,1-Dichloroethane	2.16	0.0500	2.000	0	108	80	120				
cis-1,2-Dichloroethene	2.18	0.0500	2.000	0	109	80	120				
(MEK) 2-Butanone	4.94	0.150	5.000	0	98.8	80	120				
Chloroform	2.17	0.0500	2.000	0	109	80	120				
1,1,1-Trichloroethane (TCA)	2.20	0.0400	2.000	0	110	80	120				
1,1-Dichloropropene	2.23	0.0500	2.000	0	112	80	120				
Carbon tetrachloride	2.18	0.0750	2.000	0	109	80	120				
1,2-Dichloroethane (EDC)	2.16	0.0400	2.000	0	108	80	120				
Benzene	2.20	0.0440	2.000	0	110	80	120				
Trichloroethene (TCE)	2.33	0.0500	2.000	0	116	80	120				
1,2-Dichloropropane	2.20	0.0500	2.000	0	110	80	120				
Bromodichloromethane	2.16	0.0500	2.000	0	108	80	120				
Dibromomethane	2.17	0.0500	2.000	0	109	80	120				
cis-1,3-Dichloropropene	2.01	0.0500	2.000	0	101	80	120				
Toluene	2.20	0.0750	2.000	0	110	80	120				
trans-1,3-Dichloropropylene	2.07	0.0500	2.000	0	103	80	120				
Methyl Isobutyl Ketone (MIBK)	5.24	0.125	5.000	0	105	80	120				
1,1,2-Trichloroethane	2.14	0.0350	2.000	0	107	80	120				
1,3-Dichloropropane	2.14	0.0500	2.000	0	107	80	120				

Work Order: 2108161
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33343	SampType: LCS	Units: µg/L				Prep Date: 8/13/2021	RunNo: 69314				
Client ID: LCSW	Batch ID: 33343					Analysis Date: 8/13/2021	SeqNo: 1404449				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	2.21	0.0400	2.000	0	111	80	120				
Dibromochloromethane	2.10	0.100	2.000	0	105	80	120				
1,2-Dibromoethane (EDB)	2.12	0.0300	2.000	0	106	80	120				
2-Hexanone	5.45	0.100	5.000	0	109	80	120				
Chlorobenzene	1.94	0.0500	2.000	0	97.0	80	120				
1,1,1,2-Tetrachloroethane	1.91	0.0300	2.000	0	95.5	80	120				
Ethylbenzene	1.99	0.0400	2.000	0	99.4	80	120				
m,p-Xylene	3.93	0.100	4.000	0	98.3	80	120				
o-Xylene	1.97	0.0500	2.000	0	98.7	80	120				
Styrene	1.92	0.0500	2.000	0	96.0	80	120				
Isopropylbenzene	1.99	0.0500	2.000	0	99.3	80	120				
Bromoform	1.80	0.0500	2.000	0	89.9	80	120				
1,1,2,2-Tetrachloroethane	1.72	0.0400	2.000	0	86.2	80	120				
n-Propylbenzene	1.92	0.0500	2.000	0	96.2	80	120				
Bromobenzene	1.92	0.0500	2.000	0	95.9	80	120				
1,3,5-Trimethylbenzene	1.95	0.0250	2.000	0	97.6	80	120				
2-Chlorotoluene	1.95	0.0500	2.000	0	97.4	80	120				
4-Chlorotoluene	1.92	0.0500	2.000	0	96.0	80	120				
tert-Butylbenzene	1.97	0.0500	2.000	0	98.7	80	120				
1,2,3-Trichloropropane	1.77	0.0400	2.000	0	88.6	80	120				
1,2,4-Trichlorobenzene	1.94	0.0750	2.000	0	97.0	80	120				
sec-Butylbenzene	1.97	0.0500	2.000	0	98.6	80	120				
4-Isopropyltoluene	1.95	0.0500	2.000	0	97.7	80	120				
1,3-Dichlorobenzene	2.17	0.0500	2.000	0	108	80	120				
1,4-Dichlorobenzene	2.17	0.0500	2.000	0	108	80	120				
n-Butylbenzene	2.19	0.0500	2.000	0	109	80	120				
1,2-Dichlorobenzene	2.17	0.0500	2.000	0	108	80	120				
1,2-Dibromo-3-chloropropane	1.88	0.100	2.000	0	94.2	80	120				
1,2,4-Trimethylbenzene	1.96	0.0500	2.000	0	98.1	80	120				
Hexachlorobutadiene	2.08	0.0500	2.000	0	104	80	120				

Work Order: 2108161
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33343	SampType: LCS	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69314							
Client ID: LCSW	Batch ID: 33343		Analysis Date: 8/13/2021	SeqNo: 1404449							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.88	0.125	2.000	0	93.8	80	120				
1,2,3-Trichlorobenzene	1.66	0.0700	2.000	0	83.1	80	120				B
Surr: Dibromofluoromethane	2.81		2.500		112	80	120				
Surr: Toluene-d8	2.82		2.500		113	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.59		2.500		104	80	120				

Sample ID: MB-33343	SampType: MBLK	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69314							
Client ID: MBLKW	Batch ID: 33343		Analysis Date: 8/13/2021	SeqNo: 1404448							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									
Benzene	ND	0.0440									

Work Order: 2108161
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33343	SampType: MBLK	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69314							
Client ID: MBLKW	Batch ID: 33343		Analysis Date: 8/13/2021	SeqNo: 1404448							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.0400									

Work Order: 2108161
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33343	SampType: MBLK	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69314							
Client ID: MBLKW	Batch ID: 33343	Analysis Date: 8/13/2021	SeqNo: 1404448								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	0.102	0.0700									
Surr: Dibromofluoromethane	2.41		2.500		96.5	80	121				
Surr: Toluene-d8	2.44		2.500		97.6	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.44		2.500		97.6	80	120				

Sample ID: 2108161-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69314							
Client ID: Effluent	Batch ID: 33343	Analysis Date: 8/13/2021	SeqNo: 1404441								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125						0		30	
Chloromethane	ND	0.0750						0		30	
Vinyl chloride	ND	0.0350						0		30	
Bromomethane	ND	0.120						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	
Chloroethane	ND	0.100						0		30	
1,1-Dichloroethene	ND	0.0500						0		30	
Acetone	1.41	0.600						1.476	4.52	30	
Methylene chloride	ND	0.0750						0		30	
trans-1,2-Dichloroethene	ND	0.0500						0		30	

Work Order: 2108161
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108161-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/13/2021	RunNo: 69314					
Client ID: Effluent	Batch ID: 33343				Analysis Date: 8/13/2021	SeqNo: 1404441					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	
1,1-Dichloroethane	ND	0.0500						0		30	
cis-1,2-Dichloroethene	ND	0.0500						0		30	
(MEK) 2-Butanone	0.951	0.150						0.9629	1.19	30	
Chloroform	ND	0.0500						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	
1,1-Dichloropropene	ND	0.0500						0		30	
Carbon tetrachloride	ND	0.0750						0		30	
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	
Benzene	ND	0.0440						0		30	
Trichloroethene (TCE)	ND	0.0500						0		30	
1,2-Dichloropropane	ND	0.0500						0		30	
Bromodichloromethane	ND	0.0500						0		30	
Dibromomethane	ND	0.0500						0		30	
cis-1,3-Dichloropropene	ND	0.0500						0		30	
Toluene	0.434	0.0750						0.4423	1.96	30	
trans-1,3-Dichloropropylene	ND	0.0500						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	
1,1,2-Trichloroethane	ND	0.0350						0		30	
1,3-Dichloropropane	ND	0.0500						0		30	
Tetrachloroethene (PCE)	ND	0.0400						0		30	
Dibromochloromethane	ND	0.100						0		30	
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	
2-Hexanone	ND	0.100						0		30	
Chlorobenzene	ND	0.0500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	
Ethylbenzene	0.0768	0.0400						0.07631	0.588	30	
m,p-Xylene	0.272	0.100						0.2718	0.0788	30	
o-Xylene	0.104	0.0500						0.1060	1.83	30	
Styrene	ND	0.0500						0		30	

Work Order: 2108161
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108161-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/13/2021	RunNo: 69314					
Client ID: Effluent	Batch ID: 33343				Analysis Date: 8/13/2021	SeqNo: 1404441					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.0500						0		30	
Bromoform	ND	0.0500						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	
n-Propylbenzene	ND	0.0500						0		30	
Bromobenzene	ND	0.0500						0		30	
1,3,5-Trimethylbenzene	ND	0.0250						0		30	
2-Chlorotoluene	ND	0.0500						0		30	
4-Chlorotoluene	ND	0.0500						0		30	
tert-Butylbenzene	ND	0.0500						0		30	
1,2,3-Trichloropropane	ND	0.0400						0		30	
1,2,4-Trichlorobenzene	ND	0.0750						0.1145	66.2	30	
sec-Butylbenzene	ND	0.0500						0		30	
4-Isopropyltoluene	ND	0.0500						0		30	
1,3-Dichlorobenzene	ND	0.0500						0		30	
1,4-Dichlorobenzene	ND	0.0500						0		30	
n-Butylbenzene	ND	0.0500						0		30	
1,2-Dichlorobenzene	ND	0.0500						0		30	
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	
1,2,4-Trimethylbenzene	0.0696	0.0500						0.07409	6.25	30	
Hexachlorobutadiene	ND	0.0500						0		30	
Naphthalene	0.129	0.125						0.2729	71.4	30	R
1,2,3-Trichlorobenzene	0.0920	0.0700						0.1870	68.1	30	BR
Surr: Dibromofluoromethane	2.56		2.500		102	80	121		0		
Surr: Toluene-d8	2.54		2.500		101	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.45		2.500		98.1	80	120		0		

NOTES:

R - High RPD observed.

Work Order: 2108161
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33343	SampType: LCS	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69315							
Client ID: LCSW	Batch ID: 33343		Analysis Date: 8/13/2021	SeqNo: 1404471							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	43.0	5.00	50.00	0	85.9	65	135				
Surr: 4-Bromofluorobenzene	2.44		2.500		97.5	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Sample ID: MB-33343	SampType: MBLK	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69315							
Client ID: MBLKW	Batch ID: 33343		Analysis Date: 8/13/2021	SeqNo: 1404470							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.41		2.500		96.4	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Sample ID: 2108161-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/13/2021	RunNo: 69315							
Client ID: Effluent	Batch ID: 33343		Analysis Date: 8/13/2021	SeqNo: 1404463							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	10.2	5.00						9.076	11.3	30	
Surr: 4-Bromofluorobenzene	2.46		2.500		98.5	65	135		0		
Surr: Toluene-d8	2.52		2.500		101	65	135		0		

Client Name: **BLAES**
 Logged by: **Clare Griggs**

Work Order Number: **2108161**
 Date Received: **8/11/2021 4:23:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air Samples
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/11/21 Page: 1 of 1
Project Name: CIRCLE K #6049

Laboratory Project No (Internal): 2108161
Special Remarks:

Client: BLAES ENVIRONMENT

Project No: 202-6049

Address: 45 E. MONTEREY WAY #200

Collected by: DAN BLAES

City, State, zip: PHOENIX AZ 85012

Location: LENNEX WICK WA

Telephone: 602-728-0707

Report To (PM): DAN BLAES

Fax: 602-728-0708

PM Email: DBLAES@BLAESENVIRONMENTAL.COM

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Contaminants													Comments	
					VOCs (EPA 8260 / 624)	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)			
1 INFLUENT	8/11/21	11:45	V	1	X	X													VAPOR 8260
2 EFFLUENT	8/11/21	11:44	V	1	X														
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name *DAN BLAES* Date/Time *8/11/21 4:20 pm*

Relinquished (Signature) *[Signature]* Print Name *Sean Galloway* Date/Time *8/11/21 16:23*

Received (Signature) *[Signature]*

Turn-around Time: Standard Next Day 3 Day Same Day 2 Day (specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: Circle K#6049
Work Order Number: 2108208

August 23, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/16/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Date: 08/23/2021

CLIENT: Blaes Environmental
Project: Circle K#6049
Work Order: 2108208

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108208-001	Influent	08/15/2021 2:15 PM	08/16/2021 8:27 AM
2108208-002	Effluent	08/15/2021 2:14 PM	08/16/2021 8:27 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Blaes Environmental

Project: Circle K#6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/15/2021 2:15:00 PM

Project: Circle K#6049

Lab ID: 2108208-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33374

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/17/2021 11:48:26 AM
Chloromethane	ND	0.0750		µg/L	1	8/17/2021 11:48:26 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/17/2021 11:48:26 AM
Bromomethane	ND	0.120		µg/L	1	8/17/2021 11:48:26 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Chloroethane	ND	0.100		µg/L	1	8/17/2021 11:48:26 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Acetone	1.27	0.600		µg/L	1	8/17/2021 11:48:26 AM
Methylene chloride	ND	0.0750		µg/L	1	8/17/2021 11:48:26 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
(MEK) 2-Butanone	0.199	0.150		µg/L	1	8/17/2021 11:48:26 AM
Chloroform	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/17/2021 11:48:26 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/17/2021 11:48:26 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/17/2021 11:48:26 AM
Benzene	ND	0.0440		µg/L	1	8/17/2021 11:48:26 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Dibromomethane	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Toluene	ND	0.0750		µg/L	1	8/17/2021 11:48:26 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/17/2021 11:48:26 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/17/2021 11:48:26 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/17/2021 11:48:26 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/17/2021 11:48:26 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/17/2021 11:48:26 AM
2-Hexanone	ND	0.100		µg/L	1	8/17/2021 11:48:26 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/17/2021 11:48:26 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/17/2021 11:48:26 AM
m,p-Xylene	0.652	0.100		µg/L	1	8/17/2021 11:48:26 AM
o-Xylene	1.01	0.0500		µg/L	1	8/17/2021 11:48:26 AM



Analytical Report

Work Order: 2108208

Date Reported: 8/23/2021

Client: Blaes Environmental

Collection Date: 8/15/2021 2:15:00 PM

Project: Circle K#6049

Lab ID: 2108208-001

Matrix: Air

Client Sample ID: Influent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33374

Analyst: CR

Styrene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Bromoform	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/17/2021 11:48:26 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Bromobenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,3,5-Trimethylbenzene	0.544	0.0250		µg/L	1	8/17/2021 11:48:26 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/17/2021 11:48:26 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/17/2021 11:48:26 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/17/2021 11:48:26 AM
1,2,4-Trimethylbenzene	0.660	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/17/2021 11:48:26 AM
Naphthalene	ND	0.125		µg/L	1	8/17/2021 11:48:26 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/17/2021 11:48:26 AM
Surr: Dibromofluoromethane	103	80 - 121		%Rec	1	8/17/2021 11:48:26 AM
Surr: Toluene-d8	102	80 - 120		%Rec	1	8/17/2021 11:48:26 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	80 - 120		%Rec	1	8/17/2021 11:48:26 AM

Gasoline by NWTPH-Gx

Batch ID: 33374

Analyst: CR

Gasoline	36.4	5.00		µg/L	1	8/17/2021 11:48:26 AM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	8/17/2021 11:48:26 AM
Surr: Toluene-d8	99.8	65 - 135		%Rec	1	8/17/2021 11:48:26 AM



Client: Blaes Environmental

Collection Date: 8/15/2021 2:14:00 PM

Project: Circle K#6049

Lab ID: 2108208-002

Matrix: Air

Client Sample ID: Effluent

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33374

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/17/2021 10:18:01 AM
Chloromethane	ND	0.0750		µg/L	1	8/17/2021 10:18:01 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/17/2021 10:18:01 AM
Bromomethane	0.189	0.120		µg/L	1	8/17/2021 10:18:01 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Chloroethane	ND	0.100		µg/L	1	8/17/2021 10:18:01 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Acetone	1.10	0.600		µg/L	1	8/17/2021 10:18:01 AM
Methylene chloride	ND	0.0750		µg/L	1	8/17/2021 10:18:01 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	8/17/2021 10:18:01 AM
Chloroform	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/17/2021 10:18:01 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/17/2021 10:18:01 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/17/2021 10:18:01 AM
Benzene	ND	0.0440		µg/L	1	8/17/2021 10:18:01 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Dibromomethane	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Toluene	0.0763	0.0750		µg/L	1	8/17/2021 10:18:01 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/17/2021 10:18:01 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/17/2021 10:18:01 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/17/2021 10:18:01 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/17/2021 10:18:01 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/17/2021 10:18:01 AM
2-Hexanone	ND	0.100		µg/L	1	8/17/2021 10:18:01 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/17/2021 10:18:01 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/17/2021 10:18:01 AM
m,p-Xylene	ND	0.100		µg/L	1	8/17/2021 10:18:01 AM
o-Xylene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM



Analytical Report

Work Order: 2108208
Date Reported: 8/23/2021

Client: Blaes Environmental
Project: Circle K#6049
Lab ID: 2108208-002
Client Sample ID: Effluent

Collection Date: 8/15/2021 2:14:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33374 Analyst: CR

Styrene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Bromoform	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/17/2021 10:18:01 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Bromobenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,3,5-Trimethylbenzene	ND	0.0250		µg/L	1	8/17/2021 10:18:01 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/17/2021 10:18:01 AM
1,2,4-Trichlorobenzene	0.0785	0.0750		µg/L	1	8/17/2021 10:18:01 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/17/2021 10:18:01 AM
1,2,4-Trimethylbenzene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/17/2021 10:18:01 AM
Naphthalene	0.166	0.125		µg/L	1	8/17/2021 10:18:01 AM
1,2,3-Trichlorobenzene	0.123	0.0700	B	µg/L	1	8/17/2021 10:18:01 AM
Surr: Dibromofluoromethane	103	80 - 121		%Rec	1	8/17/2021 10:18:01 AM
Surr: Toluene-d8	100	80 - 120		%Rec	1	8/17/2021 10:18:01 AM
Surr: 1-Bromo-4-fluorobenzene	98.2	80 - 120		%Rec	1	8/17/2021 10:18:01 AM

Gasoline by NWTPH-Gx

Batch ID: 33374 Analyst: CR

Gasoline	ND	5.00		µg/L	1	8/17/2021 10:18:01 AM
Surr: 4-Bromofluorobenzene	97.1	65 - 135		%Rec	1	8/17/2021 10:18:01 AM
Surr: Toluene-d8	101	65 - 135		%Rec	1	8/17/2021 10:18:01 AM

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33374	SampType: LCS	Units: µg/L				Prep Date: 8/17/2021	RunNo: 69405				
Client ID: LCSW	Batch ID: 33374					Analysis Date: 8/17/2021	SeqNo: 1406347				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.27	0.125	2.000	0	113	80	120				
Chloromethane	2.15	0.0750	2.000	0	107	80	120				
Vinyl chloride	2.05	0.0350	2.000	0	102	80	120				
Bromomethane	2.33	0.120	2.000	0	116	80	120				
Trichlorofluoromethane (CFC-11)	2.02	0.0500	2.000	0	101	80	120				
Chloroethane	1.97	0.100	2.000	0	98.3	80	120				
1,1-Dichloroethene	1.96	0.0500	2.000	0	98.0	80	120				
Acetone	4.03	0.600	5.000	0	80.5	80	120				
Methylene chloride	1.93	0.0750	2.000	0	96.6	80	120				
trans-1,2-Dichloroethene	1.98	0.0500	2.000	0	99.1	80	120				
Methyl tert-butyl ether (MTBE)	1.94	0.0500	2.000	0	97.1	80	120				
1,1-Dichloroethane	1.93	0.0500	2.000	0	96.5	80	120				
cis-1,2-Dichloroethene	1.96	0.0500	2.000	0	98.0	80	120				
(MEK) 2-Butanone	4.06	0.150	5.000	0	81.3	80	120				
Chloroform	1.93	0.0500	2.000	0	96.6	80	120				
1,1,1-Trichloroethane (TCA)	1.97	0.0400	2.000	0	98.6	80	120				
1,1-Dichloropropene	1.98	0.0500	2.000	0	98.8	80	120				
Carbon tetrachloride	1.97	0.0750	2.000	0	98.5	80	120				
1,2-Dichloroethane (EDC)	1.88	0.0400	2.000	0	93.8	80	120				
Benzene	1.97	0.0440	2.000	0	98.5	80	120				
Trichloroethene (TCE)	1.98	0.0500	2.000	0	99.1	80	120				
1,2-Dichloropropane	1.94	0.0500	2.000	0	96.9	80	120				
Bromodichloromethane	1.91	0.0500	2.000	0	95.4	80	120				
Dibromomethane	1.90	0.0500	2.000	0	95.2	80	120				
cis-1,3-Dichloropropene	1.89	0.0500	2.000	0	94.6	80	120				
Toluene	1.97	0.0750	2.000	0	98.3	80	120				
trans-1,3-Dichloropropylene	1.98	0.0500	2.000	0	99.0	80	120				
Methyl Isobutyl Ketone (MIBK)	4.22	0.125	5.000	0	84.3	80	120				
1,1,2-Trichloroethane	1.87	0.0350	2.000	0	93.6	80	120				
1,3-Dichloropropane	1.87	0.0500	2.000	0	93.5	80	120				

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33374	SampType: LCS	Units: µg/L				Prep Date: 8/17/2021	RunNo: 69405				
Client ID: LCSW	Batch ID: 33374					Analysis Date: 8/17/2021	SeqNo: 1406347				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	2.03	0.0400	2.000	0	101	80	120				
Dibromochloromethane	1.86	0.100	2.000	0	92.9	80	120				
1,2-Dibromoethane (EDB)	1.84	0.0300	2.000	0	91.9	80	120				
2-Hexanone	4.36	0.100	5.000	0	87.2	80	120				
Chlorobenzene	1.98	0.0500	2.000	0	99.1	80	120				
1,1,1,2-Tetrachloroethane	1.95	0.0300	2.000	0	97.4	80	120				
Ethylbenzene	2.00	0.0400	2.000	0	100	80	120				
m,p-Xylene	4.00	0.100	4.000	0	100	80	120				
o-Xylene	2.00	0.0500	2.000	0	99.9	80	120				
Styrene	1.95	0.0500	2.000	0	97.7	80	120				
Isopropylbenzene	2.01	0.0500	2.000	0	100	80	120				
Bromoform	1.77	0.0500	2.000	0	88.4	80	120				
1,1,2,2-Tetrachloroethane	1.78	0.0400	2.000	0	89.0	80	120				
n-Propylbenzene	1.98	0.0500	2.000	0	98.9	80	120				
Bromobenzene	1.94	0.0500	2.000	0	97.2	80	120				
1,3,5-Trimethylbenzene	1.98	0.0250	2.000	0	99.2	80	120				
2-Chlorotoluene	1.98	0.0500	2.000	0	99.2	80	120				
4-Chlorotoluene	1.93	0.0500	2.000	0	96.6	80	120				
tert-Butylbenzene	2.01	0.0500	2.000	0	101	80	120				
1,2,3-Trichloropropane	1.72	0.0400	2.000	0	85.8	80	120				
1,2,4-Trichlorobenzene	1.89	0.0750	2.000	0	94.7	80	120				
sec-Butylbenzene	2.02	0.0500	2.000	0	101	80	120				
4-Isopropyltoluene	2.02	0.0500	2.000	0	101	80	120				
1,3-Dichlorobenzene	2.17	0.0500	2.000	0	109	80	120				
1,4-Dichlorobenzene	2.15	0.0500	2.000	0	107	80	120				
n-Butylbenzene	2.24	0.0500	2.000	0	112	80	120				
1,2-Dichlorobenzene	2.12	0.0500	2.000	0	106	80	120				
1,2-Dibromo-3-chloropropane	1.79	0.100	2.000	0	89.3	80	120				
1,2,4-Trimethylbenzene	1.99	0.0500	2.000	0	99.5	80	120				
Hexachlorobutadiene	2.21	0.0500	2.000	0	111	80	120				

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33374	SampType: LCS	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69405							
Client ID: LCSW	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406347							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.70	0.125	2.000	0	84.8	80	120				
1,2,3-Trichlorobenzene	1.61	0.0700	2.000	0	80.4	80	120				B
Surr: Dibromofluoromethane	2.50		2.500		100	80	120				
Surr: Toluene-d8	2.49		2.500		99.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.56		2.500		102	80	120				

Sample ID: MB-33374	SampType: MBLK	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69405							
Client ID: MBLKW	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406346							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									
Benzene	ND	0.0440									



Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33374	SampType: MBLK	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69405							
Client ID: MBLKW	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406346							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.0400									

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33374	SampType: MBLK	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69405							
Client ID: MBLKW	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406346							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	0.109	0.0700									
Surr: Dibromofluoromethane	2.49		2.500		99.5	80	121				
Surr: Toluene-d8	2.47		2.500		98.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.46		2.500		98.6	80	120				

Sample ID: 2108208-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69405							
Client ID: Effluent	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406343							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.125						0		30	
Chloromethane	ND	0.0750						0		30	
Vinyl chloride	ND	0.0350						0		30	
Bromomethane	0.186	0.120						0.1890	1.36	30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	
Chloroethane	ND	0.100						0		30	
1,1-Dichloroethene	ND	0.0500						0		30	
Acetone	0.987	0.600						1.103	11.1	30	
Methylene chloride	ND	0.0750						0		30	
trans-1,2-Dichloroethene	ND	0.0500						0		30	

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108208-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69405							
Client ID: Effluent	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406343							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	
1,1-Dichloroethane	ND	0.0500						0		30	
cis-1,2-Dichloroethene	ND	0.0500						0		30	
(MEK) 2-Butanone	ND	0.150						0		30	
Chloroform	ND	0.0500						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	
1,1-Dichloropropene	ND	0.0500						0		30	
Carbon tetrachloride	ND	0.0750						0		30	
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	
Benzene	ND	0.0440						0		30	
Trichloroethene (TCE)	ND	0.0500						0		30	
1,2-Dichloropropane	ND	0.0500						0		30	
Bromodichloromethane	ND	0.0500						0		30	
Dibromomethane	ND	0.0500						0		30	
cis-1,3-Dichloropropene	ND	0.0500						0		30	
Toluene	ND	0.0750						0.07631	8.20	30	
trans-1,3-Dichloropropylene	ND	0.0500						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	
1,1,2-Trichloroethane	ND	0.0350						0		30	
1,3-Dichloropropane	ND	0.0500						0		30	
Tetrachloroethene (PCE)	ND	0.0400						0		30	
Dibromochloromethane	ND	0.100						0		30	
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	
2-Hexanone	ND	0.100						0		30	
Chlorobenzene	ND	0.0500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	
Ethylbenzene	ND	0.0400						0		30	
m,p-Xylene	ND	0.100						0		30	
o-Xylene	ND	0.0500						0		30	
Styrene	ND	0.0500						0		30	

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108208-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/17/2021	RunNo: 69405					
Client ID: Effluent	Batch ID: 33374				Analysis Date: 8/17/2021	SeqNo: 1406343					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.0500						0		30	
Bromoform	ND	0.0500						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	
n-Propylbenzene	ND	0.0500						0		30	
Bromobenzene	ND	0.0500						0		30	
1,3,5-Trimethylbenzene	ND	0.0250						0		30	
2-Chlorotoluene	ND	0.0500						0		30	
4-Chlorotoluene	ND	0.0500						0		30	
tert-Butylbenzene	ND	0.0500						0		30	
1,2,3-Trichloropropane	ND	0.0400						0		30	
1,2,4-Trichlorobenzene	ND	0.0750						0.07852	33.4	30	
sec-Butylbenzene	ND	0.0500						0		30	
4-Isopropyltoluene	ND	0.0500						0		30	
1,3-Dichlorobenzene	ND	0.0500						0		30	
1,4-Dichlorobenzene	ND	0.0500						0		30	
n-Butylbenzene	ND	0.0500						0		30	
1,2-Dichlorobenzene	ND	0.0500						0		30	
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	
1,2,4-Trimethylbenzene	ND	0.0500						0		30	
Hexachlorobutadiene	ND	0.0500						0		30	
Naphthalene	ND	0.125						0.1655	38.5	30	
1,2,3-Trichlorobenzene	0.0826	0.0700						0.1227	39.1	30	B
Surr: Dibromofluoromethane	2.55		2.500		102	80	121		0		
Surr: Toluene-d8	2.51		2.500		100	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.44		2.500		97.6	80	120		0		

Work Order: 2108208
 CLIENT: Blaes Environmental
 Project: Circle K#6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33374	SampType: LCS	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69406							
Client ID: LCSW	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406356							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	49.0	5.00	50.00	0	97.9	65	135				
Surr: 4-Bromofluorobenzene	2.43		2.500		97.3	65	135				
Surr: Toluene-d8	2.53		2.500		101	65	135				

Sample ID: MB-33374	SampType: MBLK	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69406							
Client ID: MBLKW	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406354							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.39		2.500		95.6	65	135				
Surr: Toluene-d8	2.53		2.500		101	65	135				

Sample ID: 2108208-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/17/2021	RunNo: 69406							
Client ID: Effluent	Batch ID: 33374		Analysis Date: 8/17/2021	SeqNo: 1406351							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0		30	
Surr: 4-Bromofluorobenzene	2.41		2.500		96.5	65	135		0		
Surr: Toluene-d8	2.54		2.500		102	65	135		0		

Client Name: BLAES	Work Order Number: 2108208
Logged by: Clare Griggs	Date Received: 8/16/2021 8:27:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
- Air Samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/16/21 Page: 1 of 1

Project Name: CIRCUEK # 6049

Project No: 2025-6049

Collected by: DAN BUES

Location: KENNEWICK, WA

Report To (PM): DAN BUES

PM Email: DBUES@BUES-SEMIANALYTICAL.COM

Laboratory Project No (Internal): 2108208

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HX)	Diesel/Heavy Oil Range Organics (HCID)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (801)	Comments
1. INFLUENT	8/15/21	2:15	V	1	X												
2. EFFLUENT	8/15/21	2:14	V	1	X												
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate+Nitrite
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquisher (Signature): DAN BUES Date/Time: 8/16/21 8:15 AM
 Print Name: DAN BUES
 Received (Signature): Justine Monte Date/Time: 8/16 8:17
 Print Name: Justine Monte



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: CIRCLE K# 6049

Work Order Number: 2108301

August 26, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/20/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

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CLIENT: Blaes Environmental
Project: CIRCLE K# 6049
Work Order: 2108301

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108301-001	INFLUENT	08/20/2021 9:01 AM	08/20/2021 2:33 PM
2108301-002	EFFLUENT	08/20/2021 9:00 AM	08/20/2021 2:33 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Blaes Environmental

Project: CIRCLE K# 6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/20/2021 9:01:00 AM

Project: CIRCLE K# 6049

Lab ID: 2108301-001

Matrix: Air

Client Sample ID: INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33448

Analyst: KT

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/23/2021 11:31:44 AM
Chloromethane	ND	0.0750		µg/L	1	8/23/2021 11:31:44 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/23/2021 11:31:44 AM
Bromomethane	ND	0.120		µg/L	1	8/23/2021 11:31:44 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Chloroethane	ND	0.100		µg/L	1	8/23/2021 11:31:44 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Acetone	0.916	0.600	Q	µg/L	1	8/23/2021 11:31:44 AM
Methylene chloride	ND	0.0750		µg/L	1	8/23/2021 11:31:44 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
(MEK) 2-Butanone	0.208	0.150	Q	µg/L	1	8/23/2021 11:31:44 AM
Chloroform	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/23/2021 11:31:44 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/23/2021 11:31:44 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/23/2021 11:31:44 AM
Benzene	ND	0.0440		µg/L	1	8/23/2021 11:31:44 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Dibromomethane	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Toluene	ND	0.0750		µg/L	1	8/23/2021 11:31:44 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	Q	µg/L	1	8/23/2021 11:31:44 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/23/2021 11:31:44 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/23/2021 11:31:44 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/23/2021 11:31:44 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/23/2021 11:31:44 AM
2-Hexanone	ND	0.100	Q	µg/L	1	8/23/2021 11:31:44 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/23/2021 11:31:44 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/23/2021 11:31:44 AM
m,p-Xylene	1.51	0.100		µg/L	1	8/23/2021 11:31:44 AM
o-Xylene	2.77	0.0500		µg/L	1	8/23/2021 11:31:44 AM



Analytical Report

Work Order: 2108301
Date Reported: 8/26/2021

Client: Blaes Environmental
Project: CIRCLE K# 6049
Lab ID: 2108301-001
Client Sample ID: INFLUENT

Collection Date: 8/20/2021 9:01:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33448 Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Isopropylbenzene	0.0772	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Bromoform	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/23/2021 11:31:44 AM
n-Propylbenzene	0.0718	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Bromobenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,3,5-Trimethylbenzene	2.99	0.0250		µg/L	1	8/23/2021 11:31:44 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
4-Chlorotoluene	0.314	0.0500		µg/L	1	8/23/2021 11:31:44 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/23/2021 11:31:44 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/23/2021 11:31:44 AM
sec-Butylbenzene	0.0815	0.0500		µg/L	1	8/23/2021 11:31:44 AM
4-Isopropyltoluene	0.0549	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/23/2021 11:31:44 AM
1,2,4-Trimethylbenzene	4.78	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/23/2021 11:31:44 AM
Naphthalene	ND	0.125		µg/L	1	8/23/2021 11:31:44 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/23/2021 11:31:44 AM
Surr: Dibromofluoromethane	97.1	80 - 121		%Rec	1	8/23/2021 11:31:44 AM
Surr: Toluene-d8	96.0	80 - 120		%Rec	1	8/23/2021 11:31:44 AM
Surr: 1-Bromo-4-fluorobenzene	101	80 - 120		%Rec	1	8/23/2021 11:31:44 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria

Gasoline by NWTPH-Gx

Batch ID: 33448 Analyst: KT

Gasoline	107	5.00		µg/L	1	8/23/2021 11:31:44 AM
Surr: 4-Bromofluorobenzene	107	65 - 135		%Rec	1	8/23/2021 11:31:44 AM
Surr: Toluene-d8	97.4	65 - 135		%Rec	1	8/23/2021 11:31:44 AM



Client: Blaes Environmental

Collection Date: 8/20/2021 9:00:00 AM

Project: CIRCLE K# 6049

Lab ID: 2108301-002

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>						
					Batch ID: 33448	Analyst: KT
Dichlorodifluoromethane	ND	0.125		µg/L	1	8/23/2021 10:31:22 AM
Chloromethane	ND	0.0750		µg/L	1	8/23/2021 10:31:22 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/23/2021 10:31:22 AM
Bromomethane	ND	0.120		µg/L	1	8/23/2021 10:31:22 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Chloroethane	ND	0.100		µg/L	1	8/23/2021 10:31:22 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Acetone	1.03	0.600	Q	µg/L	1	8/23/2021 10:31:22 AM
Methylene chloride	ND	0.0750		µg/L	1	8/23/2021 10:31:22 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
(MEK) 2-Butanone	ND	0.150	Q	µg/L	1	8/23/2021 10:31:22 AM
Chloroform	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/23/2021 10:31:22 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/23/2021 10:31:22 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/23/2021 10:31:22 AM
Benzene	ND	0.0440		µg/L	1	8/23/2021 10:31:22 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Dibromomethane	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Toluene	ND	0.0750		µg/L	1	8/23/2021 10:31:22 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	Q	µg/L	1	8/23/2021 10:31:22 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/23/2021 10:31:22 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/23/2021 10:31:22 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/23/2021 10:31:22 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/23/2021 10:31:22 AM
2-Hexanone	ND	0.100	Q	µg/L	1	8/23/2021 10:31:22 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/23/2021 10:31:22 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/23/2021 10:31:22 AM
m,p-Xylene	ND	0.100		µg/L	1	8/23/2021 10:31:22 AM
o-Xylene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM



Analytical Report

Work Order: 2108301
Date Reported: 8/26/2021

Client: Blaes Environmental
Project: CIRCLE K# 6049
Lab ID: 2108301-002
Client Sample ID: EFFLUENT

Collection Date: 8/20/2021 9:00:00 AM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33448 Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Bromoform	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/23/2021 10:31:22 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Bromobenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,3,5-Trimethylbenzene	ND	0.0250		µg/L	1	8/23/2021 10:31:22 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/23/2021 10:31:22 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/23/2021 10:31:22 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/23/2021 10:31:22 AM
1,2,4-Trimethylbenzene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/23/2021 10:31:22 AM
Naphthalene	ND	0.125		µg/L	1	8/23/2021 10:31:22 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/23/2021 10:31:22 AM
Surr: Dibromofluoromethane	96.9	80 - 121		%Rec	1	8/23/2021 10:31:22 AM
Surr: Toluene-d8	94.3	80 - 120		%Rec	1	8/23/2021 10:31:22 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	80 - 120		%Rec	1	8/23/2021 10:31:22 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria

Gasoline by NWTPH-Gx

Batch ID: 33448 Analyst: KT

Gasoline	ND	5.00		µg/L	1	8/23/2021 10:31:22 AM
Surr: 4-Bromofluorobenzene	98.2	65 - 135		%Rec	1	8/23/2021 10:31:22 AM
Surr: Toluene-d8	99.1	65 - 135		%Rec	1	8/23/2021 10:31:22 AM

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33448	SampType: LCS	Units: µg/L				Prep Date: 8/23/2021	RunNo: 69476				
Client ID: LCSW	Batch ID: 33448					Analysis Date: 8/23/2021	SeqNo: 1407719				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	1.65	0.125	2.000	0	82.3	80	120				
Chloromethane	1.63	0.0750	2.000	0	81.5	80	120				
Vinyl chloride	1.65	0.0350	2.000	0	82.3	80	120				
Bromomethane	3.46	0.120	2.000	0	173	80	120				S
Trichlorofluoromethane (CFC-11)	1.83	0.0500	2.000	0	91.6	80	120				
Chloroethane	1.80	0.100	2.000	0	90.1	80	120				
1,1-Dichloroethene	1.81	0.0500	2.000	0	90.6	80	120				
Acetone	3.34	0.600	5.000	0	66.8	80	120				S
Methylene chloride	1.76	0.0750	2.000	0	88.0	80	120				
trans-1,2-Dichloroethene	1.85	0.0500	2.000	0	92.4	80	120				
Methyl tert-butyl ether (MTBE)	2.44	0.0500	2.000	0	122	80	120				S
1,1-Dichloroethane	1.75	0.0500	2.000	0	87.5	80	120				
cis-1,2-Dichloroethene	1.86	0.0500	2.000	0	92.9	80	120				
(MEK) 2-Butanone	3.94	0.150	5.000	0	78.8	80	120				S
Chloroform	1.82	0.0500	2.000	0	90.8	80	120				
1,1,1-Trichloroethane (TCA)	1.94	0.0400	2.000	0	97.0	80	120				
1,1-Dichloropropene	1.84	0.0500	2.000	0	91.8	80	120				
Carbon tetrachloride	1.95	0.0750	2.000	0	97.3	80	120				
1,2-Dichloroethane (EDC)	1.71	0.0400	2.000	0	85.4	80	120				
Benzene	1.79	0.0440	2.000	0	89.4	80	120				
Trichloroethene (TCE)	1.85	0.0500	2.000	0	92.3	80	120				
1,2-Dichloropropane	1.72	0.0500	2.000	0	86.0	80	120				
Bromodichloromethane	1.76	0.0500	2.000	0	88.0	80	120				
Dibromomethane	1.73	0.0500	2.000	0	86.5	80	120				
cis-1,3-Dichloropropene	1.83	0.0500	2.000	0	91.4	80	120				
Toluene	1.83	0.0750	2.000	0	91.6	80	120				
trans-1,3-Dichloropropylene	2.01	0.0500	2.000	0	100	80	120				
Methyl Isobutyl Ketone (MIBK)	3.91	0.125	5.000	0	78.2	80	120				S
1,1,2-Trichloroethane	1.71	0.0350	2.000	0	85.6	80	120				
1,3-Dichloropropane	1.66	0.0500	2.000	0	82.9	80	120				

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33448	SampType: LCS	Units: µg/L				Prep Date: 8/23/2021	RunNo: 69476				
Client ID: LCSW	Batch ID: 33448					Analysis Date: 8/23/2021	SeqNo: 1407719				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	1.98	0.0400	2.000	0	99.2	80	120				
Dibromochloromethane	1.72	0.100	2.000	0	86.2	80	120				
1,2-Dibromoethane (EDB)	1.72	0.0300	2.000	0	86.1	80	120				
2-Hexanone	3.93	0.100	5.000	0	78.7	80	120				S
Chlorobenzene	1.94	0.0500	2.000	0	97.2	80	120				
1,1,1,2-Tetrachloroethane	1.97	0.0300	2.000	0	98.4	80	120				
Ethylbenzene	1.95	0.0400	2.000	0	97.7	80	120				
m,p-Xylene	3.94	0.100	4.000	0	98.6	80	120				
o-Xylene	1.94	0.0500	2.000	0	96.8	80	120				
Styrene	1.88	0.0500	2.000	0	94.2	80	120				
Isopropylbenzene	1.94	0.0500	2.000	0	97.0	80	120				
Bromoform	1.73	0.0500	2.000	0	86.4	80	120				
1,1,1,2,2-Tetrachloroethane	1.65	0.0400	2.000	0	82.5	80	120				
n-Propylbenzene	1.91	0.0500	2.000	0	95.7	80	120				
Bromobenzene	1.89	0.0500	2.000	0	94.5	80	120				
1,3,5-Trimethylbenzene	1.92	0.0250	2.000	0	95.9	80	120				
2-Chlorotoluene	1.88	0.0500	2.000	0	93.8	80	120				
4-Chlorotoluene	1.82	0.0500	2.000	0	91.1	80	120				
tert-Butylbenzene	1.92	0.0500	2.000	0	96.0	80	120				
1,2,3-Trichloropropane	1.65	0.0400	2.000	0	82.6	80	120				
1,2,4-Trichlorobenzene	2.17	0.0750	2.000	0	109	80	120				
sec-Butylbenzene	1.91	0.0500	2.000	0	95.6	80	120				
4-Isopropyltoluene	1.94	0.0500	2.000	0	97.1	80	120				
1,3-Dichlorobenzene	1.94	0.0500	2.000	0	96.8	80	120				
1,4-Dichlorobenzene	2.02	0.0500	2.000	0	101	80	120				
n-Butylbenzene	1.99	0.0500	2.000	0	99.4	80	120				
1,2-Dichlorobenzene	1.92	0.0500	2.000	0	95.8	80	120				
1,2-Dibromo-3-chloropropane	1.70	0.100	2.000	0	85.2	80	120				
1,2,4-Trimethylbenzene	1.90	0.0500	2.000	0	95.2	80	120				
Hexachlorobutadiene	2.12	0.0500	2.000	0	106	80	120				

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33448	SampType: LCS	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: LCSW	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407719							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.31	0.125	2.000	0	115	80	120				
1,2,3-Trichlorobenzene	2.46	0.0700	2.000	0	123	80	120				S
Surr: Dibromofluoromethane	2.40		2.500		96.1	80	120				
Surr: Toluene-d8	2.37		2.500		94.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.47		2.500		98.9	80	120				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.
 S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

Sample ID: MB-33448	SampType: MBLK	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: MBLKW	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407714							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									Q
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									Q
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									



Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33448	SampType: MBLK	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: MBLKW	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407714							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	ND	0.0400									
Benzene	ND	0.0440									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									Q
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									Q
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33448	SampType: MBLK	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: MBLKW	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407714							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

tert-Butylbenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.0400									
1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.37		2.500		94.6	80	121				
Surr: Toluene-d8	2.30		2.500		92.2	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.41		2.500		96.5	80	120				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria

Sample ID: 2108301-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: EFFLUENT	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407711							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.125						0		30	
Chloromethane	ND	0.0750						0		30	
Vinyl chloride	ND	0.0350						0		30	
Bromomethane	ND	0.120						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	
Chloroethane	ND	0.100						0		30	
1,1-Dichloroethene	ND	0.0500						0		30	

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108301-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: EFFLUENT	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407711							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.07	0.600						1.030	3.60	30	Q
Methylene chloride	ND	0.0750						0		30	
trans-1,2-Dichloroethene	ND	0.0500						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	
1,1-Dichloroethane	ND	0.0500						0		30	
cis-1,2-Dichloroethene	ND	0.0500						0		30	
(MEK) 2-Butanone	ND	0.150						0		30	Q
Chloroform	ND	0.0500						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	
1,1-Dichloropropene	ND	0.0500						0		30	
Carbon tetrachloride	ND	0.0750						0		30	
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	
Benzene	ND	0.0440						0		30	
Trichloroethene (TCE)	ND	0.0500						0		30	
1,2-Dichloropropane	ND	0.0500						0		30	
Bromodichloromethane	ND	0.0500						0		30	
Dibromomethane	ND	0.0500						0		30	
cis-1,3-Dichloropropene	ND	0.0500						0		30	
Toluene	ND	0.0750						0		30	
trans-1,3-Dichloropropylene	ND	0.0500						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	Q
1,1,2-Trichloroethane	ND	0.0350						0		30	
1,3-Dichloropropane	ND	0.0500						0		30	
Tetrachloroethene (PCE)	ND	0.0400						0		30	
Dibromochloromethane	ND	0.100						0		30	
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	
2-Hexanone	ND	0.100						0		30	Q
Chlorobenzene	ND	0.0500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	
Ethylbenzene	ND	0.0400						0		30	

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108301-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/23/2021	RunNo: 69476							
Client ID: EFFLUENT	Batch ID: 33448		Analysis Date: 8/23/2021	SeqNo: 1407711							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	ND	0.100						0		30	
o-Xylene	ND	0.0500						0		30	
Styrene	ND	0.0500						0		30	
Isopropylbenzene	ND	0.0500						0		30	
Bromoform	ND	0.0500						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	
n-Propylbenzene	ND	0.0500						0		30	
Bromobenzene	ND	0.0500						0		30	
1,3,5-Trimethylbenzene	ND	0.0250						0		30	
2-Chlorotoluene	ND	0.0500						0		30	
4-Chlorotoluene	ND	0.0500						0		30	
tert-Butylbenzene	ND	0.0500						0		30	
1,2,3-Trichloropropane	ND	0.0400						0		30	
1,2,4-Trichlorobenzene	ND	0.0750						0		30	
sec-Butylbenzene	ND	0.0500						0		30	
4-Isopropyltoluene	ND	0.0500						0		30	
1,3-Dichlorobenzene	ND	0.0500						0		30	
1,4-Dichlorobenzene	ND	0.0500						0		30	
n-Butylbenzene	ND	0.0500						0		30	
1,2-Dichlorobenzene	ND	0.0500						0		30	
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	
1,2,4-Trimethylbenzene	ND	0.0500						0		30	
Hexachlorobutadiene	ND	0.0500						0		30	
Naphthalene	ND	0.125						0		30	
1,2,3-Trichlorobenzene	ND	0.0700						0		30	
Surr: Dibromofluoromethane	2.44		2.500		97.6	80	121		0		
Surr: Toluene-d8	2.36		2.500		94.5	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.40		2.500		96.0	80	120		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet acceptance criteria

Work Order: 2108301
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33448	SampType: LCS	Units: µg/L			Prep Date: 8/23/2021	RunNo: 69477					
Client ID: LCSW	Batch ID: 33448				Analysis Date: 8/23/2021	SeqNo: 1407906					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	50.0	5.00	50.00	0	99.9	65	135				
Surr: 4-Bromofluorobenzene	2.48		2.500		99.0	65	135				
Surr: Toluene-d8	2.48		2.500		99.1	65	135				

Sample ID: MB-33448	SampType: MBLK	Units: µg/L			Prep Date: 8/23/2021	RunNo: 69477					
Client ID: MBLKW	Batch ID: 33448				Analysis Date: 8/23/2021	SeqNo: 1407905					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.43		2.500		97.2	65	135				
Surr: Toluene-d8	2.49		2.500		99.5	65	135				

Sample ID: 2108301-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/23/2021	RunNo: 69477					
Client ID: EFFLUENT	Batch ID: 33448				Analysis Date: 8/23/2021	SeqNo: 1407902					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0		30	
Surr: 4-Bromofluorobenzene	2.48		2.500		99.0	65	135		0		
Surr: Toluene-d8	2.51		2.500		101	65	135		0		

Client Name: **BLAES**

 Work Order Number: **2108301**

 Logged by: **Gabrielle Coeulle**

 Date Received: **8/20/2021 2:33:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
- Air samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: CIRCLE K# 6049
Work Order Number: 2108333

August 31, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/24/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



CLIENT: Blaes Environmental
Project: CIRCLE K# 6049
Work Order: 2108333

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108333-001	INFLUENT	08/23/2021 2:31 PM	08/24/2021 9:16 AM
2108333-002	EFFLUENT	08/23/2021 2:30 PM	08/24/2021 9:16 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Blaes Environmental

Project: CIRCLE K# 6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental
Project: CIRCLE K# 6049
Lab ID: 2108333-001
Client Sample ID: INFLUENT

Collection Date: 8/23/2021 2:31:00 PM
Matrix: SVE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33494

Analyst: KT

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/26/2021 10:17:34 AM
Chloromethane	ND	0.0750		µg/L	1	8/26/2021 10:17:34 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/26/2021 10:17:34 AM
Bromomethane	ND	0.120		µg/L	1	8/26/2021 10:17:34 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Chloroethane	ND	0.100		µg/L	1	8/26/2021 10:17:34 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Acetone	ND	0.600		µg/L	1	8/26/2021 10:17:34 AM
Methylene chloride	ND	0.0750		µg/L	1	8/26/2021 10:17:34 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	8/26/2021 10:17:34 AM
Chloroform	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/26/2021 10:17:34 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/26/2021 10:17:34 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/26/2021 10:17:34 AM
Benzene	ND	0.0440		µg/L	1	8/26/2021 10:17:34 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Dibromomethane	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Toluene	ND	0.0750		µg/L	1	8/26/2021 10:17:34 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/26/2021 10:17:34 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/26/2021 10:17:34 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/26/2021 10:17:34 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/26/2021 10:17:34 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/26/2021 10:17:34 AM
2-Hexanone	ND	0.100		µg/L	1	8/26/2021 10:17:34 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/26/2021 10:17:34 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/26/2021 10:17:34 AM
m,p-Xylene	0.476	0.100		µg/L	1	8/26/2021 10:17:34 AM
o-Xylene	0.412	0.0500		µg/L	1	8/26/2021 10:17:34 AM



Client: Blaes Environmental
Project: CIRCLE K# 6049
Lab ID: 2108333-001
Client Sample ID: INFLUENT

Collection Date: 8/23/2021 2:31:00 PM
Matrix: SVE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33494 Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Bromoform	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/26/2021 10:17:34 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Bromobenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,3,5-Trimethylbenzene	0.460	0.0250		µg/L	1	8/26/2021 10:17:34 AM
2-Chlorotoluene	0.135	0.0500		µg/L	1	8/26/2021 10:17:34 AM
4-Chlorotoluene	0.0540	0.0500		µg/L	1	8/26/2021 10:17:34 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/26/2021 10:17:34 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/26/2021 10:17:34 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/26/2021 10:17:34 AM
1,2,4-Trimethylbenzene	0.734	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/26/2021 10:17:34 AM
Naphthalene	ND	0.125		µg/L	1	8/26/2021 10:17:34 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/26/2021 10:17:34 AM
Surr: Dibromofluoromethane	103	80 - 121		%Rec	1	8/26/2021 10:17:34 AM
Surr: Toluene-d8	101	80 - 120		%Rec	1	8/26/2021 10:17:34 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	80 - 120		%Rec	1	8/26/2021 10:17:34 AM

Gasoline by NWTPH-Gx

Batch ID: 33494 Analyst: KT

Gasoline	19.9	5.00		µg/L	1	8/26/2021 10:17:34 AM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	8/26/2021 10:17:34 AM
Surr: Toluene-d8	100	65 - 135		%Rec	1	8/26/2021 10:17:34 AM



Client: Blaes Environmental

Collection Date: 8/23/2021 2:30:00 PM

Project: CIRCLE K# 6049

Lab ID: 2108333-002

Matrix: SVE

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33494

Analyst: KT

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/26/2021 8:47:08 AM
Chloromethane	ND	0.0750		µg/L	1	8/26/2021 8:47:08 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/26/2021 8:47:08 AM
Bromomethane	ND	0.120		µg/L	1	8/26/2021 8:47:08 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Chloroethane	ND	0.100		µg/L	1	8/26/2021 8:47:08 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Acetone	0.643	0.600		µg/L	1	8/26/2021 8:47:08 AM
Methylene chloride	ND	0.0750		µg/L	1	8/26/2021 8:47:08 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	8/26/2021 8:47:08 AM
Chloroform	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/26/2021 8:47:08 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/26/2021 8:47:08 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/26/2021 8:47:08 AM
Benzene	ND	0.0440		µg/L	1	8/26/2021 8:47:08 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Dibromomethane	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Toluene	ND	0.0750		µg/L	1	8/26/2021 8:47:08 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/26/2021 8:47:08 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/26/2021 8:47:08 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/26/2021 8:47:08 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/26/2021 8:47:08 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/26/2021 8:47:08 AM
2-Hexanone	ND	0.100		µg/L	1	8/26/2021 8:47:08 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/26/2021 8:47:08 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/26/2021 8:47:08 AM
m,p-Xylene	ND	0.100		µg/L	1	8/26/2021 8:47:08 AM
o-Xylene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM



Client: Blaes Environmental

Collection Date: 8/23/2021 2:30:00 PM

Project: CIRCLE K# 6049

Lab ID: 2108333-002

Matrix: SVE

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33494

Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Bromoform	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/26/2021 8:47:08 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Bromobenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,3,5-Trimethylbenzene	0.0394	0.0250		µg/L	1	8/26/2021 8:47:08 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/26/2021 8:47:08 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/26/2021 8:47:08 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/26/2021 8:47:08 AM
1,2,4-Trimethylbenzene	0.0631	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/26/2021 8:47:08 AM
Naphthalene	ND	0.125		µg/L	1	8/26/2021 8:47:08 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/26/2021 8:47:08 AM
Surr: Dibromofluoromethane	102	80 - 121		%Rec	1	8/26/2021 8:47:08 AM
Surr: Toluene-d8	101	80 - 120		%Rec	1	8/26/2021 8:47:08 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	80 - 120		%Rec	1	8/26/2021 8:47:08 AM

Gasoline by NWTPH-Gx

Batch ID: 33494

Analyst: KT

Gasoline	ND	5.00		µg/L	1	8/26/2021 8:47:08 AM
Surr: 4-Bromofluorobenzene	98.9	65 - 135		%Rec	1	8/26/2021 8:47:08 AM
Surr: Toluene-d8	100	65 - 135		%Rec	1	8/26/2021 8:47:08 AM



Work Order: 2108333
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33494	SampType: LCS	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565
Client ID: LCSW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410131

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	1.89	0.125	2.000	0	94.6	80	120				
Chloromethane	2.10	0.0750	2.000	0	105	80	120				
Vinyl chloride	2.10	0.0350	2.000	0	105	80	120				
Bromomethane	2.14	0.120	2.000	0	107	80	120				
Trichlorofluoromethane (CFC-11)	2.03	0.0500	2.000	0	101	80	120				
Chloroethane	2.00	0.100	2.000	0	99.9	80	120				
1,1-Dichloroethene	2.04	0.0500	2.000	0	102	80	120				
Acetone	5.23	0.600	5.000	0	105	80	120				
Methylene chloride	2.01	0.0750	2.000	0	100	80	120				
trans-1,2-Dichloroethene	1.99	0.0500	2.000	0	99.4	80	120				
Methyl tert-butyl ether (MTBE)	1.86	0.0500	2.000	0	93.2	80	120				
1,1-Dichloroethane	2.02	0.0500	2.000	0	101	80	120				
cis-1,2-Dichloroethene	1.99	0.0500	2.000	0	99.7	80	120				
(MEK) 2-Butanone	4.86	0.150	5.000	0	97.1	80	120				
Chloroform	2.02	0.0500	2.000	0	101	80	120				
1,1,1-Trichloroethane (TCA)	1.98	0.0400	2.000	0	98.8	80	120				
1,1-Dichloropropene	2.03	0.0500	2.000	0	102	80	120				
Carbon tetrachloride	1.99	0.0750	2.000	0	99.3	80	120				
1,2-Dichloroethane (EDC)	2.01	0.0400	2.000	0	100	80	120				
Benzene	2.03	0.0440	2.000	0	101	80	120				
Trichloroethene (TCE)	2.11	0.0500	2.000	0	105	80	120				
1,2-Dichloropropane	2.07	0.0500	2.000	0	104	80	120				
Bromodichloromethane	1.99	0.0500	2.000	0	99.7	80	120				
Dibromomethane	2.00	0.0500	2.000	0	100	80	120				
cis-1,3-Dichloropropene	1.86	0.0500	2.000	0	92.8	80	120				
Toluene	2.00	0.0750	2.000	0	100	80	120				
trans-1,3-Dichloropropylene	1.88	0.0500	2.000	0	93.9	80	120				
Methyl Isobutyl Ketone (MIBK)	4.95	0.125	5.000	0	99.0	80	120				
1,1,2-Trichloroethane	2.00	0.0350	2.000	0	99.8	80	120				
1,3-Dichloropropane	2.01	0.0500	2.000	0	101	80	120				

Work Order: 2108333
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33494	SampType: LCS	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565							
Client ID: LCSW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410131							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	2.00	0.0400	2.000	0	100	80	120				
Dibromochloromethane	1.95	0.100	2.000	0	97.5	80	120				
1,2-Dibromoethane (EDB)	1.94	0.0300	2.000	0	97.1	80	120				
2-Hexanone	4.81	0.100	5.000	0	96.2	80	120				
Chlorobenzene	1.98	0.0500	2.000	0	98.8	80	120				
1,1,1,2-Tetrachloroethane	1.96	0.0300	2.000	0	97.9	80	120				
Ethylbenzene	2.02	0.0400	2.000	0	101	80	120				
m,p-Xylene	3.96	0.100	4.000	0	98.9	80	120				
o-Xylene	2.00	0.0500	2.000	0	99.9	80	120				
Styrene	1.97	0.0500	2.000	0	98.4	80	120				
Isopropylbenzene	2.01	0.0500	2.000	0	101	80	120				
Bromoform	1.90	0.0500	2.000	0	94.9	80	120				
1,1,1,2-Tetrachloroethane	1.90	0.0400	2.000	0	95.0	80	120				
n-Propylbenzene	1.98	0.0500	2.000	0	99.1	80	120				
Bromobenzene	1.96	0.0500	2.000	0	97.8	80	120				
1,3,5-Trimethylbenzene	2.00	0.0250	2.000	0	99.8	80	120				
2-Chlorotoluene	2.02	0.0500	2.000	0	101	80	120				
4-Chlorotoluene	1.95	0.0500	2.000	0	97.7	80	120				
tert-Butylbenzene	2.02	0.0500	2.000	0	101	80	120				
1,2,3-Trichloropropane	1.86	0.0400	2.000	0	92.8	80	120				
1,2,4-Trichlorobenzene	1.85	0.0750	2.000	0	92.6	80	120				
sec-Butylbenzene	2.03	0.0500	2.000	0	101	80	120				
4-Isopropyltoluene	1.99	0.0500	2.000	0	99.3	80	120				
1,3-Dichlorobenzene	2.07	0.0500	2.000	0	104	80	120				
1,4-Dichlorobenzene	2.05	0.0500	2.000	0	102	80	120				
n-Butylbenzene	2.08	0.0500	2.000	0	104	80	120				
1,2-Dichlorobenzene	2.07	0.0500	2.000	0	104	80	120				
1,2-Dibromo-3-chloropropane	1.94	0.100	2.000	0	97.1	80	120				
1,2,4-Trimethylbenzene	2.00	0.0500	2.000	0	100	80	120				
Hexachlorobutadiene	2.03	0.0500	2.000	0	102	80	120				

Work Order: 2108333
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33494	SampType: LCS	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565							
Client ID: LCSW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410131							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.65	0.125	2.000	0	82.5	80	120				
1,2,3-Trichlorobenzene	1.73	0.0700	2.000	0	86.4	80	120				
Surr: Dibromofluoromethane	2.54		2.500		101	80	120				
Surr: Toluene-d8	2.55		2.500		102	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.57		2.500		103	80	120				

Sample ID: MB-33494	SampType: MBLK	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565							
Client ID: MBLKW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410130							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									
Benzene	ND	0.0440									

Work Order: 2108333
CLIENT: Blaes Environmental
Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33494	SampType: MBLK	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565
Client ID: MBLKW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410130

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.0400									

Work Order: 2108333
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33494	SampType: MBLK	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565							
Client ID: MBLKW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410130							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.49		2.500		99.5	80	121				
Surr: Toluene-d8	2.48		2.500		99.3	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.46		2.500		98.5	80	120				

Sample ID: 2108333-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565							
Client ID: EFFLUENT	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410127							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.125						0		30	
Chloromethane	ND	0.0750						0		30	
Vinyl chloride	ND	0.0350						0		30	
Bromomethane	ND	0.120						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	
Chloroethane	ND	0.100						0		30	
1,1-Dichloroethene	ND	0.0500						0		30	
Acetone	0.663	0.600						0.6426	3.08	30	
Methylene chloride	ND	0.0750						0		30	
trans-1,2-Dichloroethene	ND	0.0500						0		30	

Work Order: 2108333
CLIENT: Blaes Environmental
Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108333-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69565
Client ID: EFFLUENT	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410127

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	
1,1-Dichloroethane	ND	0.0500						0		30	
cis-1,2-Dichloroethene	ND	0.0500						0		30	
(MEK) 2-Butanone	ND	0.150						0		30	
Chloroform	ND	0.0500						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	
1,1-Dichloropropene	ND	0.0500						0		30	
Carbon tetrachloride	ND	0.0750						0		30	
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	
Benzene	ND	0.0440						0		30	
Trichloroethene (TCE)	ND	0.0500						0		30	
1,2-Dichloropropane	ND	0.0500						0		30	
Bromodichloromethane	ND	0.0500						0		30	
Dibromomethane	ND	0.0500						0		30	
cis-1,3-Dichloropropene	ND	0.0500						0		30	
Toluene	ND	0.0750						0		30	
trans-1,3-Dichloropropylene	ND	0.0500						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	
1,1,2-Trichloroethane	ND	0.0350						0		30	
1,3-Dichloropropane	ND	0.0500						0		30	
Tetrachloroethene (PCE)	ND	0.0400						0		30	
Dibromochloromethane	ND	0.100						0		30	
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	
2-Hexanone	ND	0.100						0		30	
Chlorobenzene	ND	0.0500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	
Ethylbenzene	ND	0.0400						0		30	
m,p-Xylene	ND	0.100						0		30	
o-Xylene	ND	0.0500						0		30	
Styrene	ND	0.0500						0		30	

Work Order: 2108333
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108333-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/26/2021	RunNo: 69565					
Client ID: EFFLUENT	Batch ID: 33494				Analysis Date: 8/26/2021	SeqNo: 1410127					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.0500						0		30	
Bromoform	ND	0.0500						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	
n-Propylbenzene	ND	0.0500						0		30	
Bromobenzene	ND	0.0500						0		30	
1,3,5-Trimethylbenzene	0.0359	0.0250						0.03944	9.44	30	
2-Chlorotoluene	ND	0.0500						0		30	
4-Chlorotoluene	ND	0.0500						0		30	
tert-Butylbenzene	ND	0.0500						0		30	
1,2,3-Trichloropropane	ND	0.0400						0		30	
1,2,4-Trichlorobenzene	ND	0.0750						0		30	
sec-Butylbenzene	ND	0.0500						0		30	
4-Isopropyltoluene	ND	0.0500						0		30	
1,3-Dichlorobenzene	ND	0.0500						0		30	
1,4-Dichlorobenzene	ND	0.0500						0		30	
n-Butylbenzene	ND	0.0500						0		30	
1,2-Dichlorobenzene	ND	0.0500						0		30	
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	
1,2,4-Trimethylbenzene	0.0561	0.0500						0.06314	11.8	30	
Hexachlorobutadiene	ND	0.0500						0		30	
Naphthalene	ND	0.125						0		30	
1,2,3-Trichlorobenzene	ND	0.0700						0		30	
Surr: Dibromofluoromethane	2.56		2.500		102	80	121		0		
Surr: Toluene-d8	2.55		2.500		102	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.44		2.500		97.5	80	120		0		

Work Order: 2108333
 CLIENT: Blaes Environmental
 Project: CIRCLE K# 6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33494	SampType: LCS	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69566							
Client ID: LCSW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410139							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	40.8	5.00	50.00	0	81.6	65	135				
Surr: 4-Bromofluorobenzene	2.49		2.500		99.7	65	135				
Surr: Toluene-d8	2.48		2.500		99.4	65	135				

Sample ID: MB-33494	SampType: MBLK	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69566							
Client ID: MBLKW	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410138							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.42		2.500		96.9	65	135				
Surr: Toluene-d8	2.50		2.500		99.9	65	135				

Sample ID: 2108333-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/26/2021	RunNo: 69566							
Client ID: EFFLUENT	Batch ID: 33494		Analysis Date: 8/26/2021	SeqNo: 1410135							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0		30	
Surr: 4-Bromofluorobenzene	2.44		2.500		97.6	65	135		0		
Surr: Toluene-d8	2.53		2.500		101	65	135		0		

Client Name: **BLAES**
 Logged by: **Clare Griggs**

 Work Order Number: **2108333**
 Date Received: **8/24/2021 9:16:00 AM**
Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
- Air Samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental

Dan Blaes
45 E. Monterey Way, Ste 200
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 2108381

September 02, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/26/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Date: 09/02/2021

CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 2108381

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108381-001	INFLUENT	08/26/2021 11:25 AM	08/26/2021 3:46 PM
2108381-002	EFFLUENT	08/26/2021 11:24 AM	08/26/2021 3:46 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/26/2021 11:25:00 AM

Project: Circle K #6049

Lab ID: 2108381-001

Matrix: SVE

Client Sample ID: INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33519

Analyst: KT

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/27/2021 11:49:29 AM
Chloromethane	ND	0.0750		µg/L	1	8/27/2021 11:49:29 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/27/2021 11:49:29 AM
Bromomethane	ND	0.120		µg/L	1	8/27/2021 11:49:29 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Chloroethane	ND	0.100		µg/L	1	8/27/2021 11:49:29 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Acetone	ND	0.600		µg/L	1	8/27/2021 11:49:29 AM
Methylene chloride	ND	0.0750		µg/L	1	8/27/2021 11:49:29 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	8/27/2021 11:49:29 AM
Chloroform	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/27/2021 11:49:29 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/27/2021 11:49:29 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/27/2021 11:49:29 AM
Benzene	ND	0.0440		µg/L	1	8/27/2021 11:49:29 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Dibromomethane	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Toluene	ND	0.0750		µg/L	1	8/27/2021 11:49:29 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/27/2021 11:49:29 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/27/2021 11:49:29 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/27/2021 11:49:29 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/27/2021 11:49:29 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/27/2021 11:49:29 AM
2-Hexanone	ND	0.100		µg/L	1	8/27/2021 11:49:29 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/27/2021 11:49:29 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/27/2021 11:49:29 AM
m,p-Xylene	ND	0.100		µg/L	1	8/27/2021 11:49:29 AM
o-Xylene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM



Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 2108381-001
Client Sample ID: INFLUENT

Collection Date: 8/26/2021 11:25:00 AM
Matrix: SVE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33519 Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Bromoform	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/27/2021 11:49:29 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Bromobenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,3,5-Trimethylbenzene	0.101	0.0250		µg/L	1	8/27/2021 11:49:29 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/27/2021 11:49:29 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/27/2021 11:49:29 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/27/2021 11:49:29 AM
1,2,4-Trimethylbenzene	0.130	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/27/2021 11:49:29 AM
Naphthalene	ND	0.125		µg/L	1	8/27/2021 11:49:29 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/27/2021 11:49:29 AM
Surr: Dibromofluoromethane	103	80 - 121		%Rec	1	8/27/2021 11:49:29 AM
Surr: Toluene-d8	102	80 - 120		%Rec	1	8/27/2021 11:49:29 AM
Surr: 1-Bromo-4-fluorobenzene	96.9	80 - 120		%Rec	1	8/27/2021 11:49:29 AM

Gasoline by NWTPH-Gx

Batch ID: 33519 Analyst: KT

Gasoline	8.35	5.00		µg/L	1	8/27/2021 11:49:29 AM
Surr: 4-Bromofluorobenzene	97.2	65 - 135		%Rec	1	8/27/2021 11:49:29 AM
Surr: Toluene-d8	103	65 - 135		%Rec	1	8/27/2021 11:49:29 AM



Client: Blaes Environmental

Collection Date: 8/26/2021 11:24:00 AM

Project: Circle K #6049

Lab ID: 2108381-002

Matrix: SVE

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33519

Analyst: KT

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/27/2021 9:49:13 AM
Chloromethane	ND	0.0750		µg/L	1	8/27/2021 9:49:13 AM
Vinyl chloride	ND	0.0350		µg/L	1	8/27/2021 9:49:13 AM
Bromomethane	ND	0.120		µg/L	1	8/27/2021 9:49:13 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Chloroethane	ND	0.100		µg/L	1	8/27/2021 9:49:13 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Acetone	ND	0.600		µg/L	1	8/27/2021 9:49:13 AM
Methylene chloride	ND	0.0750		µg/L	1	8/27/2021 9:49:13 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	8/27/2021 9:49:13 AM
Chloroform	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/27/2021 9:49:13 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/27/2021 9:49:13 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/27/2021 9:49:13 AM
Benzene	ND	0.0440		µg/L	1	8/27/2021 9:49:13 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Bromodichloromethane	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Dibromomethane	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Toluene	ND	0.0750		µg/L	1	8/27/2021 9:49:13 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/27/2021 9:49:13 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/27/2021 9:49:13 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/27/2021 9:49:13 AM
Dibromochloromethane	ND	0.100		µg/L	1	8/27/2021 9:49:13 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/27/2021 9:49:13 AM
2-Hexanone	ND	0.100		µg/L	1	8/27/2021 9:49:13 AM
Chlorobenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/27/2021 9:49:13 AM
Ethylbenzene	ND	0.0400		µg/L	1	8/27/2021 9:49:13 AM
m,p-Xylene	ND	0.100		µg/L	1	8/27/2021 9:49:13 AM
o-Xylene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM



Client: Blaes Environmental

Collection Date: 8/26/2021 11:24:00 AM

Project: Circle K #6049

Lab ID: 2108381-002

Matrix: SVE

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33519

Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Isopropylbenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Bromoform	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/27/2021 9:49:13 AM
n-Propylbenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Bromobenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,3,5-Trimethylbenzene	0.0381	0.0250		µg/L	1	8/27/2021 9:49:13 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/27/2021 9:49:13 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/27/2021 9:49:13 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
n-Butylbenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/27/2021 9:49:13 AM
1,2,4-Trimethylbenzene	0.0636	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/27/2021 9:49:13 AM
Naphthalene	ND	0.125		µg/L	1	8/27/2021 9:49:13 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/27/2021 9:49:13 AM
Surr: Dibromofluoromethane	104	80 - 121		%Rec	1	8/27/2021 9:49:13 AM
Surr: Toluene-d8	103	80 - 120		%Rec	1	8/27/2021 9:49:13 AM
Surr: 1-Bromo-4-fluorobenzene	99.5	80 - 120		%Rec	1	8/27/2021 9:49:13 AM

Gasoline by NWTPH-Gx

Batch ID: 33519

Analyst: KT

Gasoline	ND	5.00		µg/L	1	8/27/2021 9:49:13 AM
Surr: 4-Bromofluorobenzene	99.3	65 - 135		%Rec	1	8/27/2021 9:49:13 AM
Surr: Toluene-d8	102	65 - 135		%Rec	1	8/27/2021 9:49:13 AM

Work Order: 2108381
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33519	SampType: LCS	Units: µg/L				Prep Date: 8/27/2021	RunNo: 69633				
Client ID: LCSW	Batch ID: 33519					Analysis Date: 8/27/2021	SeqNo: 1411474				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.81	0.125	2.000	0	141	80	120				S
Chloromethane	2.29	0.0750	2.000	0	114	80	120				
Vinyl chloride	2.38	0.0350	2.000	0	119	80	120				
Bromomethane	1.78	0.120	2.000	0	89.0	80	120				
Trichlorofluoromethane (CFC-11)	2.00	0.0500	2.000	0	100	80	120				
Chloroethane	2.11	0.100	2.000	0	105	80	120				
1,1-Dichloroethene	2.04	0.0500	2.000	0	102	80	120				
Acetone	5.12	0.600	5.000	0	102	80	120				
Methylene chloride	2.02	0.0750	2.000	0	101	80	120				
trans-1,2-Dichloroethene	1.98	0.0500	2.000	0	99.1	80	120				
Methyl tert-butyl ether (MTBE)	1.73	0.0500	2.000	0	86.5	80	120				
1,1-Dichloroethane	2.05	0.0500	2.000	0	103	80	120				
cis-1,2-Dichloroethene	1.96	0.0500	2.000	0	98.1	80	120				
(MEK) 2-Butanone	4.58	0.150	5.000	0	91.5	80	120				
Chloroform	1.96	0.0500	2.000	0	98.2	80	120				
1,1,1-Trichloroethane (TCA)	1.88	0.0400	2.000	0	93.8	80	120				
1,1-Dichloropropene	1.93	0.0500	2.000	0	96.3	80	120				
Carbon tetrachloride	1.87	0.0750	2.000	0	93.3	80	120				
1,2-Dichloroethane (EDC)	1.94	0.0400	2.000	0	97.1	80	120				
Benzene	1.99	0.0440	2.000	0	99.4	80	120				
Trichloroethene (TCE)	2.05	0.0500	2.000	0	103	80	120				B
1,2-Dichloropropane	2.03	0.0500	2.000	0	101	80	120				
Bromodichloromethane	1.94	0.0500	2.000	0	97.2	80	120				
Dibromomethane	1.96	0.0500	2.000	0	98.1	80	120				
cis-1,3-Dichloropropene	1.78	0.0500	2.000	0	89.1	80	120				
Toluene	1.94	0.0750	2.000	0	96.9	80	120				
trans-1,3-Dichloropropylene	1.79	0.0500	2.000	0	89.4	80	120				
Methyl Isobutyl Ketone (MIBK)	4.58	0.125	5.000	0	91.7	80	120				
1,1,2-Trichloroethane	1.93	0.0350	2.000	0	96.7	80	120				
1,3-Dichloropropane	1.94	0.0500	2.000	0	97.2	80	120				

Work Order: 2108381
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33519	SampType: LCS	Units: µg/L	Prep Date: 8/27/2021	RunNo: 69633							
Client ID: LCSW	Batch ID: 33519		Analysis Date: 8/27/2021	SeqNo: 1411474							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Tetrachloroethene (PCE)	1.88	0.0400	2.000	0	94.0	80	120				
Dibromochloromethane	1.88	0.100	2.000	0	94.0	80	120				
1,2-Dibromoethane (EDB)	1.86	0.0300	2.000	0	93.1	80	120				
2-Hexanone	4.44	0.100	5.000	0	88.9	80	120				
Chlorobenzene	2.02	0.0500	2.000	0	101	80	120				
1,1,1,2-Tetrachloroethane	2.01	0.0300	2.000	0	100	80	120				
Ethylbenzene	2.05	0.0400	2.000	0	102	80	120				
m,p-Xylene	4.02	0.100	4.000	0	100	80	120				
o-Xylene	2.05	0.0500	2.000	0	103	80	120				
Styrene	2.01	0.0500	2.000	0	100	80	120				
Isopropylbenzene	2.04	0.0500	2.000	0	102	80	120				
Bromoform	1.91	0.0500	2.000	0	95.7	80	120				
1,1,1,2,2-Tetrachloroethane	1.99	0.0400	2.000	0	99.4	80	120				
n-Propylbenzene	2.04	0.0500	2.000	0	102	80	120				
Bromobenzene	2.01	0.0500	2.000	0	101	80	120				
1,3,5-Trimethylbenzene	2.04	0.0250	2.000	0	102	80	120				
2-Chlorotoluene	2.10	0.0500	2.000	0	105	80	120				
4-Chlorotoluene	2.05	0.0500	2.000	0	102	80	120				
tert-Butylbenzene	2.04	0.0500	2.000	0	102	80	120				
1,2,3-Trichloropropane	1.89	0.0400	2.000	0	94.3	80	120				
1,2,4-Trichlorobenzene	1.93	0.0750	2.000	0	96.7	80	120				
sec-Butylbenzene	2.04	0.0500	2.000	0	102	80	120				
4-Isopropyltoluene	2.00	0.0500	2.000	0	100	80	120				
1,3-Dichlorobenzene	2.31	0.0500	2.000	0	116	80	120				
1,4-Dichlorobenzene	2.28	0.0500	2.000	0	114	80	120				
n-Butylbenzene	2.25	0.0500	2.000	0	113	80	120				
1,2-Dichlorobenzene	2.32	0.0500	2.000	0	116	80	120				
1,2-Dibromo-3-chloropropane	2.05	0.100	2.000	0	103	80	120				
1,2,4-Trimethylbenzene	2.05	0.0500	2.000	0	103	80	120				
Hexachlorobutadiene	2.18	0.0500	2.000	0	109	80	120				

Work Order: 2108381
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33519		SampType: LCS		Units: µg/L		Prep Date: 8/27/2021		RunNo: 69633			
Client ID: LCSW		Batch ID: 33519				Analysis Date: 8/27/2021		SeqNo: 1411474			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.62	0.125	2.000	0	80.9	80	120				
1,2,3-Trichlorobenzene	1.77	0.0700	2.000	0	88.4	80	120				
Surr: Dibromofluoromethane	2.40		2.500		96.0	80	120				
Surr: Toluene-d8	2.41		2.500		96.3	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.58		2.500		103	80	120				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: MB-33519		SampType: MBLK		Units: µg/L		Prep Date: 8/27/2021		RunNo: 69633			
Client ID: MBLKW		Batch ID: 33519				Analysis Date: 8/27/2021		SeqNo: 1411473			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									

Work Order: 2108381
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33519	SampType: MBLK	Units: µg/L	Prep Date: 8/27/2021	RunNo: 69633							
Client ID: MBLKW	Batch ID: 33519		Analysis Date: 8/27/2021	SeqNo: 1411473							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0440									
Trichloroethene (TCE)	0.0539	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									

Work Order: 2108381
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33519	SampType: MBLK	Units: µg/L	Prep Date: 8/27/2021	RunNo: 69633							
Client ID: MBLKW	Batch ID: 33519		Analysis Date: 8/27/2021	SeqNo: 1411473							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	ND	0.0400									
1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.41		2.500		96.2	80	121				
Surr: Toluene-d8	2.43		2.500		97.3	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.64		2.500		106	80	120				

Sample ID: 2108381-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/27/2021	RunNo: 69633							
Client ID: EFFLUENT	Batch ID: 33519		Analysis Date: 8/27/2021	SeqNo: 1411467							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125						0		30	
Chloromethane	ND	0.0750						0		30	
Vinyl chloride	ND	0.0350						0		30	
Bromomethane	ND	0.120						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	
Chloroethane	ND	0.100						0		30	
1,1-Dichloroethene	ND	0.0500						0		30	
Acetone	ND	0.600						0		30	
Methylene chloride	ND	0.0750						0		30	

Work Order: 2108381
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108381-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/27/2021	RunNo: 69633
Client ID: EFFLUENT	Batch ID: 33519		Analysis Date: 8/27/2021	SeqNo: 1411467

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.0500						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	
1,1-Dichloroethane	ND	0.0500						0		30	
cis-1,2-Dichloroethene	ND	0.0500						0		30	
(MEK) 2-Butanone	ND	0.150						0		30	
Chloroform	ND	0.0500						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	
1,1-Dichloropropene	ND	0.0500						0		30	
Carbon tetrachloride	ND	0.0750						0		30	
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	
Benzene	ND	0.0440						0		30	
Trichloroethene (TCE)	ND	0.0500						0		30	
1,2-Dichloropropane	ND	0.0500						0		30	
Bromodichloromethane	ND	0.0500						0		30	
Dibromomethane	ND	0.0500						0		30	
cis-1,3-Dichloropropene	ND	0.0500						0		30	
Toluene	ND	0.0750						0		30	
trans-1,3-Dichloropropylene	ND	0.0500						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	
1,1,2-Trichloroethane	ND	0.0350						0		30	
1,3-Dichloropropane	ND	0.0500						0		30	
Tetrachloroethene (PCE)	ND	0.0400						0		30	
Dibromochloromethane	ND	0.100						0		30	
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	
2-Hexanone	ND	0.100						0		30	
Chlorobenzene	ND	0.0500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	
Ethylbenzene	ND	0.0400						0		30	
m,p-Xylene	ND	0.100						0		30	
o-Xylene	ND	0.0500						0		30	

Work Order: 2108381
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108381-002AREP	SampType: REP	Units: µg/L	Prep Date: 8/27/2021	RunNo: 69633							
Client ID: EFFLUENT	Batch ID: 33519	Analysis Date: 8/27/2021	SeqNo: 1411467								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.0500						0		30	
Isopropylbenzene	ND	0.0500						0		30	
Bromoform	ND	0.0500						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	
n-Propylbenzene	ND	0.0500						0		30	
Bromobenzene	ND	0.0500						0		30	
1,3,5-Trimethylbenzene	0.0363	0.0250						0.03808	4.67	30	
2-Chlorotoluene	ND	0.0500						0		30	
4-Chlorotoluene	ND	0.0500						0		30	
tert-Butylbenzene	ND	0.0500						0		30	
1,2,3-Trichloropropane	ND	0.0400						0		30	
1,2,4-Trichlorobenzene	ND	0.0750						0		30	
sec-Butylbenzene	ND	0.0500						0		30	
4-Isopropyltoluene	ND	0.0500						0		30	
1,3-Dichlorobenzene	ND	0.0500						0		30	
1,4-Dichlorobenzene	ND	0.0500						0		30	
n-Butylbenzene	ND	0.0500						0		30	
1,2-Dichlorobenzene	ND	0.0500						0		30	
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	
1,2,4-Trimethylbenzene	0.0622	0.0500						0.06362	2.20	30	
Hexachlorobutadiene	ND	0.0500						0		30	
Naphthalene	ND	0.125						0		30	
1,2,3-Trichlorobenzene	ND	0.0700						0		30	
Surr: Dibromofluoromethane	2.58		2.500		103	80	121		0		
Surr: Toluene-d8	2.54		2.500		101	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.43		2.500		97.2	80	120		0		

Work Order: 2108381
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33519	SampType: LCS	Units: µg/L			Prep Date: 8/27/2021	RunNo: 69635					
Client ID: LCSW	Batch ID: 33519				Analysis Date: 8/27/2021	SeqNo: 1411512					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	47.3	5.00	50.00	0	94.7	65	135				
Surr: 4-Bromofluorobenzene	2.50		2.500		99.9	65	135				
Surr: Toluene-d8	2.49		2.500		99.5	65	135				

Sample ID: MB-33519	SampType: MBLK	Units: µg/L			Prep Date: 8/27/2021	RunNo: 69635					
Client ID: MBLKW	Batch ID: 33519				Analysis Date: 8/27/2021	SeqNo: 1411511					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.59		2.500		104	65	135				
Surr: Toluene-d8	2.54		2.500		102	65	135				

Sample ID: 2108381-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/27/2021	RunNo: 69635					
Client ID: EFFLUENT	Batch ID: 33519				Analysis Date: 8/27/2021	SeqNo: 1411505					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0		30	
Surr: 4-Bromofluorobenzene	2.43		2.500		97.2	65	135		0		
Surr: Toluene-d8	2.56		2.500		102	65	135		0		

Client Name: BLAES	Work Order Number: 2108381
Logged by: Clare Griggs	Date Received: 8/26/2021 3:46:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
- Air Samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Blaes Environmental

Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K #6049
Work Order Number: 2108435

September 08, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 8/31/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: Blaes Environmental
Project: Circle K #6049
Work Order: 2108435

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108435-001	INFLUENT	08/30/2021 3:07 PM	08/31/2021 9:18 AM
2108435-002	EFFLUENT	08/30/2021 3:06 PM	08/31/2021 9:18 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Blaes Environmental

Project: Circle K #6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 8/30/2021 3:07:00 PM

Project: Circle K #6049

Lab ID: 2108435-001

Matrix: Air

Client Sample ID: INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33560

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	9/1/2021 11:32:33 AM
Chloromethane	ND	0.0750		µg/L	1	9/1/2021 11:32:33 AM
Vinyl chloride	ND	0.0350		µg/L	1	9/1/2021 11:32:33 AM
Bromomethane	ND	0.120		µg/L	1	9/1/2021 11:32:33 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Chloroethane	ND	0.100		µg/L	1	9/1/2021 11:32:33 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Acetone	ND	0.600		µg/L	1	9/1/2021 11:32:33 AM
Methylene chloride	ND	0.0750		µg/L	1	9/1/2021 11:32:33 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	9/1/2021 11:32:33 AM
Chloroform	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	9/1/2021 11:32:33 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	9/1/2021 11:32:33 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	9/1/2021 11:32:33 AM
Benzene	ND	0.0440		µg/L	1	9/1/2021 11:32:33 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Bromodichloromethane	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Dibromomethane	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Toluene	ND	0.0750		µg/L	1	9/1/2021 11:32:33 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	9/1/2021 11:32:33 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	9/1/2021 11:32:33 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Tetrachloroethene (PCE)	0.0374	0.0400	J	µg/L	1	9/1/2021 11:32:33 AM
Dibromochloromethane	ND	0.100		µg/L	1	9/1/2021 11:32:33 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	9/1/2021 11:32:33 AM
2-Hexanone	ND	0.100		µg/L	1	9/1/2021 11:32:33 AM
Chlorobenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	9/1/2021 11:32:33 AM
Ethylbenzene	ND	0.0400		µg/L	1	9/1/2021 11:32:33 AM
m,p-Xylene	0.0577	0.100	J	µg/L	1	9/1/2021 11:32:33 AM
o-Xylene	0.0626	0.0500		µg/L	1	9/1/2021 11:32:33 AM



Analytical Report

Work Order: 2108435
Date Reported: 9/8/2021

Client: Blaes Environmental
Project: Circle K #6049
Lab ID: 2108435-001
Client Sample ID: INFLUENT

Collection Date: 8/30/2021 3:07:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33560 Analyst: CR

Styrene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Isopropylbenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Bromoform	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	9/1/2021 11:32:33 AM
n-Propylbenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Bromobenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,3,5-Trimethylbenzene	0.122	0.0250		µg/L	1	9/1/2021 11:32:33 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	9/1/2021 11:32:33 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	9/1/2021 11:32:33 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
n-Butylbenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	9/1/2021 11:32:33 AM
1,2,4-Trimethylbenzene	0.196	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	9/1/2021 11:32:33 AM
Naphthalene	ND	0.125		µg/L	1	9/1/2021 11:32:33 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	9/1/2021 11:32:33 AM
Surr: Dibromofluoromethane	99.9	80 - 121		%Rec	1	9/1/2021 11:32:33 AM
Surr: Toluene-d8	100	80 - 120		%Rec	1	9/1/2021 11:32:33 AM
Surr: 1-Bromo-4-fluorobenzene	96.8	80 - 120		%Rec	1	9/1/2021 11:32:33 AM

Gasoline by NWTPH-Gx

Batch ID: 33560 Analyst: CR

Gasoline	6.79	5.00		µg/L	1	9/1/2021 11:32:33 AM
Surr: 4-Bromofluorobenzene	96.5	65 - 135		%Rec	1	9/1/2021 11:32:33 AM
Surr: Toluene-d8	103	65 - 135		%Rec	1	9/1/2021 11:32:33 AM



Client: Blaes Environmental

Collection Date: 8/30/2021 3:06:00 PM

Project: Circle K #6049

Lab ID: 2108435-002

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33560

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	9/1/2021 9:32:13 AM
Chloromethane	ND	0.0750		µg/L	1	9/1/2021 9:32:13 AM
Vinyl chloride	ND	0.0350		µg/L	1	9/1/2021 9:32:13 AM
Bromomethane	ND	0.120		µg/L	1	9/1/2021 9:32:13 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Chloroethane	ND	0.100		µg/L	1	9/1/2021 9:32:13 AM
1,1-Dichloroethene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Acetone	0.743	0.600		µg/L	1	9/1/2021 9:32:13 AM
Methylene chloride	ND	0.0750		µg/L	1	9/1/2021 9:32:13 AM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,1-Dichloroethane	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
(MEK) 2-Butanone	ND	0.150		µg/L	1	9/1/2021 9:32:13 AM
Chloroform	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	9/1/2021 9:32:13 AM
1,1-Dichloropropene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Carbon tetrachloride	ND	0.0750		µg/L	1	9/1/2021 9:32:13 AM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	9/1/2021 9:32:13 AM
Benzene	ND	0.0440		µg/L	1	9/1/2021 9:32:13 AM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,2-Dichloropropane	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Bromodichloromethane	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Dibromomethane	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Toluene	ND	0.0750		µg/L	1	9/1/2021 9:32:13 AM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	9/1/2021 9:32:13 AM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	9/1/2021 9:32:13 AM
1,3-Dichloropropane	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	9/1/2021 9:32:13 AM
Dibromochloromethane	ND	0.100		µg/L	1	9/1/2021 9:32:13 AM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	9/1/2021 9:32:13 AM
2-Hexanone	ND	0.100		µg/L	1	9/1/2021 9:32:13 AM
Chlorobenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	9/1/2021 9:32:13 AM
Ethylbenzene	ND	0.0400		µg/L	1	9/1/2021 9:32:13 AM
m,p-Xylene	ND	0.100		µg/L	1	9/1/2021 9:32:13 AM
o-Xylene	0.0169	0.0500	J	µg/L	1	9/1/2021 9:32:13 AM



Client: Blaes Environmental

Collection Date: 8/30/2021 3:06:00 PM

Project: Circle K #6049

Lab ID: 2108435-002

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33560

Analyst: CR

Styrene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Isopropylbenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Bromoform	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	9/1/2021 9:32:13 AM
n-Propylbenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Bromobenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,3,5-Trimethylbenzene	0.0374	0.0250		µg/L	1	9/1/2021 9:32:13 AM
2-Chlorotoluene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
4-Chlorotoluene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
tert-Butylbenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	9/1/2021 9:32:13 AM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	9/1/2021 9:32:13 AM
sec-Butylbenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
4-Isopropyltoluene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
n-Butylbenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	9/1/2021 9:32:13 AM
1,2,4-Trimethylbenzene	0.0628	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Hexachlorobutadiene	ND	0.0500		µg/L	1	9/1/2021 9:32:13 AM
Naphthalene	ND	0.125		µg/L	1	9/1/2021 9:32:13 AM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	9/1/2021 9:32:13 AM
Surr: Dibromofluoromethane	101	80 - 121		%Rec	1	9/1/2021 9:32:13 AM
Surr: Toluene-d8	99.7	80 - 120		%Rec	1	9/1/2021 9:32:13 AM
Surr: 1-Bromo-4-fluorobenzene	97.1	80 - 120		%Rec	1	9/1/2021 9:32:13 AM

Gasoline by NWTPH-Gx

Batch ID: 33560

Analyst: CR

Gasoline	3.91	5.00	J	µg/L	1	9/1/2021 9:32:13 AM
Surr: 4-Bromofluorobenzene	97.3	65 - 135		%Rec	1	9/1/2021 9:32:13 AM
Surr: Toluene-d8	102	65 - 135		%Rec	1	9/1/2021 9:32:13 AM

Work Order: 2108435
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33560	SampType: LCS	Units: µg/L				Prep Date: 9/1/2021	RunNo: 69754				
Client ID: LCSW	Batch ID: 33560					Analysis Date: 9/1/2021	SeqNo: 1413946				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.27	0.125	2.000	0	113	80	120				
Chloromethane	2.30	0.0750	2.000	0	115	80	120				
Vinyl chloride	2.26	0.0350	2.000	0	113	80	120				
Bromomethane	2.29	0.120	2.000	0	114	80	120				
Trichlorofluoromethane (CFC-11)	2.09	0.0500	2.000	0	105	80	120				
Chloroethane	2.11	0.100	2.000	0	106	80	120				
1,1-Dichloroethene	2.08	0.0500	2.000	0	104	80	120				
Acetone	4.43	0.600	5.000	0	88.7	80	120				
Methylene chloride	2.03	0.0750	2.000	0	102	80	120				
trans-1,2-Dichloroethene	2.05	0.0500	2.000	0	102	80	120				
Methyl tert-butyl ether (MTBE)	2.05	0.0500	2.000	0	102	80	120				
1,1-Dichloroethane	2.07	0.0500	2.000	0	104	80	120				
cis-1,2-Dichloroethene	2.02	0.0500	2.000	0	101	80	120				
(MEK) 2-Butanone	4.42	0.150	5.000	0	88.4	80	120				
Chloroform	2.00	0.0500	2.000	0	99.8	80	120				
1,1,1-Trichloroethane (TCA)	2.00	0.0400	2.000	0	100	80	120				
1,1-Dichloropropene	2.08	0.0500	2.000	0	104	80	120				
Carbon tetrachloride	2.01	0.0750	2.000	0	100	80	120				
1,2-Dichloroethane (EDC)	1.93	0.0400	2.000	0	96.4	80	120				
Benzene	2.06	0.0440	2.000	0	103	80	120				
Trichloroethene (TCE)	2.00	0.0500	2.000	0	100	80	120				
1,2-Dichloropropane	2.06	0.0500	2.000	0	103	80	120				
Bromodichloromethane	1.92	0.0500	2.000	0	96.1	80	120				
Dibromomethane	1.91	0.0500	2.000	0	95.3	80	120				
cis-1,3-Dichloropropene	1.97	0.0500	2.000	0	98.5	80	120				
Toluene	2.04	0.0750	2.000	0	102	80	120				
trans-1,3-Dichloropropylene	2.03	0.0500	2.000	0	101	80	120				
Methyl Isobutyl Ketone (MIBK)	4.53	0.125	5.000	0	90.7	80	120				
1,1,2-Trichloroethane	1.91	0.0350	2.000	0	95.5	80	120				
1,3-Dichloropropane	1.94	0.0500	2.000	0	96.8	80	120				

Work Order: 2108435
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33560	SampType: LCS	Units: µg/L				Prep Date: 9/1/2021	RunNo: 69754				
Client ID: LCSW	Batch ID: 33560					Analysis Date: 9/1/2021	SeqNo: 1413946				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	2.07	0.0400	2.000	0	103	80	120				
Dibromochloromethane	1.87	0.100	2.000	0	93.3	80	120				
1,2-Dibromoethane (EDB)	1.84	0.0300	2.000	0	91.9	80	120				
2-Hexanone	4.22	0.100	5.000	0	84.5	80	120				
Chlorobenzene	2.00	0.0500	2.000	0	99.8	80	120				
1,1,1,2-Tetrachloroethane	1.97	0.0300	2.000	0	98.5	80	120				
Ethylbenzene	2.05	0.0400	2.000	0	102	80	120				
m,p-Xylene	4.09	0.100	4.000	0	102	80	120				
o-Xylene	2.05	0.0500	2.000	0	102	80	120				
Styrene	1.99	0.0500	2.000	0	99.5	80	120				
Isopropylbenzene	2.08	0.0500	2.000	0	104	80	120				
Bromoform	1.81	0.0500	2.000	0	90.7	80	120				
1,1,1,2,2-Tetrachloroethane	1.93	0.0400	2.000	0	96.3	80	120				
n-Propylbenzene	2.05	0.0500	2.000	0	102	80	120				
Bromobenzene	1.99	0.0500	2.000	0	99.6	80	120				
1,3,5-Trimethylbenzene	2.06	0.0250	2.000	0	103	80	120				
2-Chlorotoluene	2.06	0.0500	2.000	0	103	80	120				
4-Chlorotoluene	2.01	0.0500	2.000	0	101	80	120				
tert-Butylbenzene	2.07	0.0500	2.000	0	104	80	120				
1,2,3-Trichloropropane	1.85	0.0400	2.000	0	92.5	80	120				
1,2,4-Trichlorobenzene	1.96	0.0750	2.000	0	97.8	80	120				
sec-Butylbenzene	2.10	0.0500	2.000	0	105	80	120				
4-Isopropyltoluene	2.09	0.0500	2.000	0	104	80	120				
1,3-Dichlorobenzene	2.05	0.0500	2.000	0	103	80	120				
1,4-Dichlorobenzene	2.03	0.0500	2.000	0	102	80	120				
n-Butylbenzene	2.13	0.0500	2.000	0	106	80	120				
1,2-Dichlorobenzene	2.02	0.0500	2.000	0	101	80	120				
1,2-Dibromo-3-chloropropane	1.75	0.100	2.000	0	87.5	80	120				
1,2,4-Trimethylbenzene	2.07	0.0500	2.000	0	104	80	120				
Hexachlorobutadiene	2.21	0.0500	2.000	0	110	80	120				

Work Order: 2108435
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33560	SampType: LCS	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: LCSW	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413946							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.68	0.125	2.000	0	84.0	80	120				
1,2,3-Trichlorobenzene	1.88	0.0700	2.000	0	93.8	80	120				
Surr: Dibromofluoromethane	2.52		2.500		101	80	120				
Surr: Toluene-d8	2.50		2.500		100	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.58		2.500		103	80	120				

Sample ID: MB-33560	SampType: MBLK	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: MBLKW	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413945							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									
Benzene	ND	0.0440									

Work Order: 2108435
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33560	SampType: MBLK	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: MBLKW	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413945							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.0400									

Work Order: 2108435
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33560	SampType: MBLK	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: MBLKW	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413945							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.48		2.500		99.2	80	121				
Surr: Toluene-d8	2.45		2.500		98.0	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.45		2.500		98.2	80	120				

Sample ID: 2108435-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: EFFLUENT	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413934							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	0.125						0	0	30	
Chloromethane	ND	0.0750						0	0	30	
Vinyl chloride	ND	0.0350						0	0	30	
Bromomethane	ND	0.120						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.0500						0	0	30	
Acetone	0.720	0.600						0.7426	3.13	30	
Methylene chloride	ND	0.0750						0	0	30	
trans-1,2-Dichloroethene	ND	0.0500						0	0	30	

Work Order: 2108435
CLIENT: Blaes Environmental
Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108435-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: EFFLUENT	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413934							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.0500						0	0	30	
1,1-Dichloroethane	ND	0.0500						0	0	30	
cis-1,2-Dichloroethene	ND	0.0500						0	0	30	
(MEK) 2-Butanone	ND	0.150						0	0	30	
Chloroform	ND	0.0500						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0	0	30	
1,1-Dichloropropene	ND	0.0500						0	0	30	
Carbon tetrachloride	ND	0.0750						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.0400						0	0	30	
Benzene	ND	0.0440						0	0	30	
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.0500						0	0	30	
Bromodichloromethane	ND	0.0500						0	0	30	
Dibromomethane	ND	0.0500						0	0	30	
cis-1,3-Dichloropropene	ND	0.0500						0	0	30	
Toluene	ND	0.0750						0	0	30	
trans-1,3-Dichloropropylene	ND	0.0500						0	0	30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0	0	30	
1,1,2-Trichloroethane	ND	0.0350						0	0	30	
1,3-Dichloropropane	ND	0.0500						0	0	30	
Tetrachloroethene (PCE)	ND	0.0400						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.0300						0	0	30	
2-Hexanone	ND	0.100						0	0	30	
Chlorobenzene	ND	0.0500						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0	0	30	
Ethylbenzene	ND	0.0400						0	0	30	
m,p-Xylene	ND	0.100						0	0	30	
o-Xylene	0.0150	0.0500						0.01691	11.8	30	J
Styrene	ND	0.0500						0	0	30	

Work Order: 2108435
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2108435-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69754							
Client ID: EFFLUENT	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413934							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Isopropylbenzene	ND	0.0500						0	0	30	
Bromoform	ND	0.0500						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0	0	30	
n-Propylbenzene	ND	0.0500						0	0	30	
Bromobenzene	ND	0.0500						0	0	30	
1,3,5-Trimethylbenzene	0.0330	0.0250						0.03738	12.4	30	
2-Chlorotoluene	ND	0.0500						0	0	30	
4-Chlorotoluene	ND	0.0500						0	0	30	
tert-Butylbenzene	ND	0.0500						0	0	30	
1,2,3-Trichloropropane	ND	0.0400						0	0	30	
1,2,4-Trichlorobenzene	ND	0.0750						0	0	30	
sec-Butylbenzene	ND	0.0500						0	0	30	
4-Isopropyltoluene	ND	0.0500						0	0	30	
1,3-Dichlorobenzene	ND	0.0500						0	0	30	
1,4-Dichlorobenzene	ND	0.0500						0	0	30	
n-Butylbenzene	ND	0.0500						0	0	30	
1,2-Dichlorobenzene	ND	0.0500						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.0569	0.0500						0.06279	9.77	30	
Hexachlorobutadiene	ND	0.0500						0	0	30	
Naphthalene	ND	0.125						0	0	30	
1,2,3-Trichlorobenzene	ND	0.0700						0	0	30	
Surr: Dibromofluoromethane	2.52		2.500		101	80	121		0		
Surr: Toluene-d8	2.49		2.500		99.8	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.39		2.500		95.5	80	120		0		

Work Order: 2108435
 CLIENT: Blaes Environmental
 Project: Circle K #6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33560	SampType: LCS	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69755							
Client ID: LCSW	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413986							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	47.6	5.00	50.00	0	95.3	65	135				
Surr: 4-Bromofluorobenzene	2.50		2.500		100	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Sample ID: MB-33560	SampType: MBLK	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69755							
Client ID: MBLKW	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413985							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.42		2.500		96.9	65	135				
Surr: Toluene-d8	2.50		2.500		100	65	135				

Sample ID: 2108435-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/1/2021	RunNo: 69755							
Client ID: EFFLUENT	Batch ID: 33560		Analysis Date: 9/1/2021	SeqNo: 1413978							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	4.30	5.00						3.911	9.54	30	J
Surr: 4-Bromofluorobenzene	2.41		2.500		96.3	65	135		0		
Surr: Toluene-d8	2.53		2.500		101	65	135		0		

Client Name: **BLAES**

 Work Order Number: **2108435**

 Logged by: **Gabrielle Coeuille**

 Date Received: **8/31/2021 9:18:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
- Air samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/31/21 Page: 1 of 1

Project Name: CIRCLE K #6049

Project No: 202-6049

Collected by: D. BUES

Location: KENNEWICK, WA

Report To (PM): DAN BUES

PM Email: DBUES@BUESANALYTICAL.COM

Laboratory Project No (Internal): 2108435

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: BUES ENVIRONMENTAL
Address: 45 E. MARLBOROUGH WAY #206
City, State, Zip: PHOENIX, AZ 85012
Telephone: 602-728-0707
Fax: 602-728-0708

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Analytes													Comments
					VOCS (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)		
1 INFLUENT	8/30/21	3:07	V	1	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 EFFLUENT	8/30/21	3:06 pm	V	1	X	X	X	X	X	X	X	X	X	X	X	X	X	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Nitrate+Nitrite O-Phosphate Fluoride
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)

Relinquished (Signature) DAN BUES Date/Time 8/31/21 9:18 AM
 Relinquished (Signature) JUSTINE MAUTE Date/Time 8/31/21 9:18 AM



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Blaes Environmental
Dan Blaes
45 E. Monterey Way
Phoenix, AZ 85012

RE: Circle K# 6049
Work Order Number: 2109054

September 08, 2021

Attention Dan Blaes:

Fremont Analytical, Inc. received 2 sample(s) on 9/2/2021 for the analyses presented in the following report.

Gasoline by NWTPH-Gx
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



CLIENT: Blaes Environmental
Project: Circle K# 6049
Work Order: 2109054

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2109054-001	INFLUENT	09/02/2021 12:29 PM	09/02/2021 4:25 PM
2109054-002	EFFLUENT	09/02/2021 12:28 PM	09/02/2021 4:25 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Blaes Environmental

Project: Circle K# 6049

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Blaes Environmental

Collection Date: 9/2/2021 12:29:00 PM

Project: Circle K# 6049

Lab ID: 2109054-001

Matrix: Air

Client Sample ID: INFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33600

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	9/3/2021 12:26:49 PM
Chloromethane	ND	0.0750		µg/L	1	9/3/2021 12:26:49 PM
Vinyl chloride	ND	0.0350		µg/L	1	9/3/2021 12:26:49 PM
Bromomethane	ND	0.120		µg/L	1	9/3/2021 12:26:49 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Chloroethane	ND	0.100		µg/L	1	9/3/2021 12:26:49 PM
1,1-Dichloroethene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Acetone	0.414	0.600	J	µg/L	1	9/3/2021 12:26:49 PM
Methylene chloride	ND	0.0750		µg/L	1	9/3/2021 12:26:49 PM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,1-Dichloroethane	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
(MEK) 2-Butanone	ND	0.150		µg/L	1	9/3/2021 12:26:49 PM
Chloroform	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	9/3/2021 12:26:49 PM
1,1-Dichloropropene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Carbon tetrachloride	ND	0.0750		µg/L	1	9/3/2021 12:26:49 PM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	9/3/2021 12:26:49 PM
Benzene	ND	0.0440		µg/L	1	9/3/2021 12:26:49 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,2-Dichloropropane	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Bromodichloromethane	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Dibromomethane	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Toluene	ND	0.0750		µg/L	1	9/3/2021 12:26:49 PM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	9/3/2021 12:26:49 PM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	9/3/2021 12:26:49 PM
1,3-Dichloropropane	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	9/3/2021 12:26:49 PM
Dibromochloromethane	ND	0.100		µg/L	1	9/3/2021 12:26:49 PM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	9/3/2021 12:26:49 PM
2-Hexanone	ND	0.100		µg/L	1	9/3/2021 12:26:49 PM
Chlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	9/3/2021 12:26:49 PM
Ethylbenzene	ND	0.0400		µg/L	1	9/3/2021 12:26:49 PM
m,p-Xylene	0.848	0.100		µg/L	1	9/3/2021 12:26:49 PM
o-Xylene	0.718	0.0500		µg/L	1	9/3/2021 12:26:49 PM



Client: Blaes Environmental
Project: Circle K# 6049
Lab ID: 2109054-001
Client Sample ID: INFLUENT

Collection Date: 9/2/2021 12:29:00 PM
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33600 Analyst: CR

Styrene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Isopropylbenzene	0.0224	0.0500	J	µg/L	1	9/3/2021 12:26:49 PM
Bromoform	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	9/3/2021 12:26:49 PM
n-Propylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Bromobenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,3,5-Trimethylbenzene	0.522	0.0250		µg/L	1	9/3/2021 12:26:49 PM
2-Chlorotoluene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
4-Chlorotoluene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
tert-Butylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	9/3/2021 12:26:49 PM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	9/3/2021 12:26:49 PM
sec-Butylbenzene	0.0239	0.0500	J	µg/L	1	9/3/2021 12:26:49 PM
4-Isopropyltoluene	0.0378	0.0500	J	µg/L	1	9/3/2021 12:26:49 PM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
n-Butylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	9/3/2021 12:26:49 PM
1,2,4-Trimethylbenzene	0.737	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Hexachlorobutadiene	ND	0.0500		µg/L	1	9/3/2021 12:26:49 PM
Naphthalene	ND	0.125		µg/L	1	9/3/2021 12:26:49 PM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	9/3/2021 12:26:49 PM
Surr: Dibromofluoromethane	96.1	80 - 121		%Rec	1	9/3/2021 12:26:49 PM
Surr: Toluene-d8	97.0	80 - 120		%Rec	1	9/3/2021 12:26:49 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	80 - 120		%Rec	1	9/3/2021 12:26:49 PM

Gasoline by NWTPH-Gx

Batch ID: 33600 Analyst: CR

Gasoline	25.1	5.00		µg/L	1	9/3/2021 12:26:49 PM
Surr: 4-Bromofluorobenzene	100	65 - 135		%Rec	1	9/3/2021 12:26:49 PM
Surr: Toluene-d8	98.3	65 - 135		%Rec	1	9/3/2021 12:26:49 PM



Client: Blaes Environmental

Collection Date: 9/2/2021 12:28:00 PM

Project: Circle K# 6049

Lab ID: 2109054-002

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33600

Analyst: CR

Dichlorodifluoromethane	ND	0.125		µg/L	1	9/3/2021 12:56:53 PM
Chloromethane	ND	0.0750		µg/L	1	9/3/2021 12:56:53 PM
Vinyl chloride	ND	0.0350		µg/L	1	9/3/2021 12:56:53 PM
Bromomethane	ND	0.120		µg/L	1	9/3/2021 12:56:53 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Chloroethane	ND	0.100		µg/L	1	9/3/2021 12:56:53 PM
1,1-Dichloroethene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Acetone	0.489	0.600	J	µg/L	1	9/3/2021 12:56:53 PM
Methylene chloride	ND	0.0750		µg/L	1	9/3/2021 12:56:53 PM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,1-Dichloroethane	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
(MEK) 2-Butanone	ND	0.150		µg/L	1	9/3/2021 12:56:53 PM
Chloroform	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	9/3/2021 12:56:53 PM
1,1-Dichloropropene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Carbon tetrachloride	ND	0.0750		µg/L	1	9/3/2021 12:56:53 PM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	9/3/2021 12:56:53 PM
Benzene	ND	0.0440		µg/L	1	9/3/2021 12:56:53 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,2-Dichloropropane	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Bromodichloromethane	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Dibromomethane	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Toluene	ND	0.0750		µg/L	1	9/3/2021 12:56:53 PM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	9/3/2021 12:56:53 PM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	9/3/2021 12:56:53 PM
1,3-Dichloropropane	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	9/3/2021 12:56:53 PM
Dibromochloromethane	ND	0.100		µg/L	1	9/3/2021 12:56:53 PM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	9/3/2021 12:56:53 PM
2-Hexanone	ND	0.100		µg/L	1	9/3/2021 12:56:53 PM
Chlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	9/3/2021 12:56:53 PM
Ethylbenzene	ND	0.0400		µg/L	1	9/3/2021 12:56:53 PM
m,p-Xylene	ND	0.100		µg/L	1	9/3/2021 12:56:53 PM
o-Xylene	0.0240	0.0500	J	µg/L	1	9/3/2021 12:56:53 PM



Client: Blaes Environmental

Collection Date: 9/2/2021 12:28:00 PM

Project: Circle K# 6049

Lab ID: 2109054-002

Matrix: Air

Client Sample ID: EFFLUENT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 33600

Analyst: CR

Styrene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Isopropylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Bromoform	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	9/3/2021 12:56:53 PM
n-Propylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Bromobenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,3,5-Trimethylbenzene	0.0381	0.0250		µg/L	1	9/3/2021 12:56:53 PM
2-Chlorotoluene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
4-Chlorotoluene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
tert-Butylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	9/3/2021 12:56:53 PM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	9/3/2021 12:56:53 PM
sec-Butylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
4-Isopropyltoluene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,3-Dichlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
n-Butylbenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	9/3/2021 12:56:53 PM
1,2,4-Trimethylbenzene	0.0647	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Hexachlorobutadiene	ND	0.0500		µg/L	1	9/3/2021 12:56:53 PM
Naphthalene	ND	0.125		µg/L	1	9/3/2021 12:56:53 PM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	9/3/2021 12:56:53 PM
Surr: Dibromofluoromethane	96.2	80 - 121		%Rec	1	9/3/2021 12:56:53 PM
Surr: Toluene-d8	96.5	80 - 120		%Rec	1	9/3/2021 12:56:53 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	80 - 120		%Rec	1	9/3/2021 12:56:53 PM

Gasoline by NWTPH-Gx

Batch ID: 33600

Analyst: CR

Gasoline	4.29	5.00	J	µg/L	1	9/3/2021 12:56:53 PM
Surr: 4-Bromofluorobenzene	98.7	65 - 135		%Rec	1	9/3/2021 12:56:53 PM
Surr: Toluene-d8	98.6	65 - 135		%Rec	1	9/3/2021 12:56:53 PM

Work Order: 2109054
CLIENT: Blaes Environmental
Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33600	SampType: LCS	Units: µg/L				Prep Date: 9/3/2021	RunNo: 69759				
Client ID: LCSW	Batch ID: 33600					Analysis Date: 9/3/2021	SeqNo: 1414299				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	2.39	0.125	2.000	0	119	80	120				
Chloromethane	1.96	0.0750	2.000	0	98.1	80	120				
Vinyl chloride	2.06	0.0350	2.000	0	103	80	120				
Bromomethane	1.96	0.120	2.000	0	98.2	80	120				
Trichlorofluoromethane (CFC-11)	1.86	0.0500	2.000	0	93.0	80	120				
Chloroethane	1.93	0.100	2.000	0	96.5	80	120				
1,1-Dichloroethene	1.91	0.0500	2.000	0	95.6	80	120				
Acetone	4.43	0.600	5.000	0	88.5	80	120				
Methylene chloride	1.88	0.0750	2.000	0	93.8	80	120				
trans-1,2-Dichloroethene	1.88	0.0500	2.000	0	94.1	80	120				
Methyl tert-butyl ether (MTBE)	2.16	0.0500	2.000	0	108	80	120				
1,1-Dichloroethane	1.86	0.0500	2.000	0	93.1	80	120				
cis-1,2-Dichloroethene	1.89	0.0500	2.000	0	94.4	80	120				
(MEK) 2-Butanone	4.37	0.150	5.000	0	87.4	80	120				
Chloroform	1.84	0.0500	2.000	0	91.8	80	120				
1,1,1-Trichloroethane (TCA)	1.84	0.0400	2.000	0	92.0	80	120				
1,1-Dichloropropene	1.85	0.0500	2.000	0	92.5	80	120				
Carbon tetrachloride	1.77	0.0750	2.000	0	88.7	80	120				
1,2-Dichloroethane (EDC)	1.80	0.0400	2.000	0	89.9	80	120				
Benzene	1.89	0.0440	2.000	0	94.6	80	120				
Trichloroethene (TCE)	1.90	0.0500	2.000	0	95.0	80	120				
1,2-Dichloropropane	1.88	0.0500	2.000	0	93.8	80	120				
Bromodichloromethane	1.76	0.0500	2.000	0	88.1	80	120				
Dibromomethane	1.83	0.0500	2.000	0	91.7	80	120				
cis-1,3-Dichloropropene	1.87	0.0500	2.000	0	93.6	80	120				
Toluene	1.93	0.0750	2.000	0	96.5	80	120				
trans-1,3-Dichloropropylene	1.98	0.0500	2.000	0	99.2	80	120				
Methyl Isobutyl Ketone (MIBK)	4.96	0.125	5.000	0	99.3	80	120				
1,1,2-Trichloroethane	1.83	0.0350	2.000	0	91.7	80	120				
1,3-Dichloropropane	1.83	0.0500	2.000	0	91.3	80	120				

Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33600	SampType: LCS	Units: µg/L				Prep Date: 9/3/2021	RunNo: 69759				
Client ID: LCSW	Batch ID: 33600					Analysis Date: 9/3/2021	SeqNo: 1414299				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	1.88	0.0400	2.000	0	94.2	80	120				
Dibromochloromethane	1.73	0.100	2.000	0	86.6	80	120				
1,2-Dibromoethane (EDB)	1.83	0.0300	2.000	0	91.7	80	120				
2-Hexanone	4.51	0.100	5.000	0	90.2	80	120				
Chlorobenzene	1.96	0.0500	2.000	0	97.8	80	120				
1,1,1,2-Tetrachloroethane	1.91	0.0300	2.000	0	95.7	80	120				
Ethylbenzene	1.96	0.0400	2.000	0	98.0	80	120				
m,p-Xylene	4.01	0.100	4.000	0	100	80	120				
o-Xylene	2.00	0.0500	2.000	0	100	80	120				
Styrene	1.95	0.0500	2.000	0	97.3	80	120				
Isopropylbenzene	1.95	0.0500	2.000	0	97.6	80	120				
Bromoform	1.77	0.0500	2.000	0	88.7	80	120				
1,1,1,2,2-Tetrachloroethane	1.82	0.0400	2.000	0	91.0	80	120				
n-Propylbenzene	1.91	0.0500	2.000	0	95.4	80	120				
Bromobenzene	1.97	0.0500	2.000	0	98.7	80	120				
1,3,5-Trimethylbenzene	1.95	0.0250	2.000	0	97.5	80	120				
2-Chlorotoluene	1.96	0.0500	2.000	0	98.1	80	120				
4-Chlorotoluene	1.90	0.0500	2.000	0	95.0	80	120				
tert-Butylbenzene	1.94	0.0500	2.000	0	97.1	80	120				
1,2,3-Trichloropropane	1.86	0.0400	2.000	0	92.8	80	120				
1,2,4-Trichlorobenzene	2.04	0.0750	2.000	0	102	80	120				
sec-Butylbenzene	1.90	0.0500	2.000	0	95.0	80	120				
4-Isopropyltoluene	1.91	0.0500	2.000	0	95.6	80	120				
1,3-Dichlorobenzene	2.01	0.0500	2.000	0	101	80	120				
1,4-Dichlorobenzene	2.01	0.0500	2.000	0	101	80	120				
n-Butylbenzene	1.93	0.0500	2.000	0	96.5	80	120				
1,2-Dichlorobenzene	2.00	0.0500	2.000	0	100	80	120				
1,2-Dibromo-3-chloropropane	1.77	0.100	2.000	0	88.6	80	120				
1,2,4-Trimethylbenzene	2.00	0.0500	2.000	0	100	80	120				
Hexachlorobutadiene	2.01	0.0500	2.000	0	101	80	120				

Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-33600	SampType: LCS	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69759							
Client ID: LCSW	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414299							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.33	0.125	2.000	0	116	80	120				
1,2,3-Trichlorobenzene	2.01	0.0700	2.000	0	101	80	120				
Surr: Dibromofluoromethane	2.37		2.500		94.7	80	120				
Surr: Toluene-d8	2.39		2.500		95.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.52		2.500		101	80	120				

Sample ID: MB-33600	SampType: MBLK	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69759							
Client ID: MBLKW	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414298							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									
Benzene	ND	0.0440									



Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33600	SampType: MBLK	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69759							
Client ID: MBLKW	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414298							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	0.0123	0.0250									J
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									
1,2,3-Trichloropropane	ND	0.0400									

Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-33600	SampType: MBLK	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69759							
Client ID: MBLKW	Batch ID: 33600	Analysis Date: 9/3/2021	SeqNo: 1414298								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	0.0213	0.0500									J
Hexachlorobutadiene	ND	0.0500									
Naphthalene	0.0670	0.125									J
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.33		2.500		93.4	80	121				
Surr: Toluene-d8	2.37		2.500		94.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.49		2.500		99.4	80	120				

Sample ID: 2109054-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69759							
Client ID: EFFLUENT	Batch ID: 33600	Analysis Date: 9/3/2021	SeqNo: 1414295								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125						0	0	30	
Chloromethane	ND	0.0750						0	0	30	
Vinyl chloride	ND	0.0350						0	0	30	
Bromomethane	ND	0.120						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0	0	30	
Chloroethane	ND	0.100						0	0	30	
1,1-Dichloroethene	ND	0.0500						0	0	30	
Acetone	0.489	0.600						0.4887	0.0143	30	J
Methylene chloride	ND	0.0750						0	0	30	
trans-1,2-Dichloroethene	ND	0.0500						0	0	30	

Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2109054-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69759							
Client ID: EFFLUENT	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414295							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.0500						0	0	30	
1,1-Dichloroethane	ND	0.0500						0	0	30	
cis-1,2-Dichloroethene	ND	0.0500						0	0	30	
(MEK) 2-Butanone	ND	0.150						0	0	30	
Chloroform	ND	0.0500						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0	0	30	
1,1-Dichloropropene	ND	0.0500						0	0	30	
Carbon tetrachloride	ND	0.0750						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.0400						0	0	30	
Benzene	ND	0.0440						0	0	30	
Trichloroethene (TCE)	ND	0.0500						0	0	30	
1,2-Dichloropropane	ND	0.0500						0	0	30	
Bromodichloromethane	ND	0.0500						0	0	30	
Dibromomethane	ND	0.0500						0	0	30	
cis-1,3-Dichloropropene	ND	0.0500						0	0	30	
Toluene	ND	0.0750						0	0	30	
trans-1,3-Dichloropropylene	ND	0.0500						0	0	30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0	0	30	
1,1,2-Trichloroethane	ND	0.0350						0	0	30	
1,3-Dichloropropane	ND	0.0500						0	0	30	
Tetrachloroethene (PCE)	ND	0.0400						0	0	30	
Dibromochloromethane	ND	0.100						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.0300						0	0	30	
2-Hexanone	ND	0.100						0	0	30	
Chlorobenzene	ND	0.0500						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0	0	30	
Ethylbenzene	ND	0.0400						0	0	30	
m,p-Xylene	ND	0.100						0	0	30	
o-Xylene	0.0180	0.0500						0.02401	28.4	30	J
Styrene	ND	0.0500						0	0	30	

Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: 2109054-002AREP	SampType: REP	Units: µg/L			Prep Date: 9/3/2021	RunNo: 69759					
Client ID: EFFLUENT	Batch ID: 33600				Analysis Date: 9/3/2021	SeqNo: 1414295					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.0500						0	0	30	
Bromoform	ND	0.0500						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0	0	30	
n-Propylbenzene	ND	0.0500						0	0	30	
Bromobenzene	ND	0.0500						0	0	30	
1,3,5-Trimethylbenzene	ND	0.0250						0.03815	200	30	R
2-Chlorotoluene	ND	0.0500						0	0	30	
4-Chlorotoluene	ND	0.0500						0	0	30	
tert-Butylbenzene	ND	0.0500						0	0	30	
1,2,3-Trichloropropane	ND	0.0400						0	0	30	
1,2,4-Trichlorobenzene	ND	0.0750						0	0	30	
sec-Butylbenzene	ND	0.0500						0	0	30	
4-Isopropyltoluene	ND	0.0500						0	0	30	
1,3-Dichlorobenzene	ND	0.0500						0	0	30	
1,4-Dichlorobenzene	ND	0.0500						0	0	30	
n-Butylbenzene	ND	0.0500						0	0	30	
1,2-Dichlorobenzene	ND	0.0500						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.100						0	0	30	
1,2,4-Trimethylbenzene	0.0567	0.0500						0.06465	13.1	30	
Hexachlorobutadiene	ND	0.0500						0	0	30	
Naphthalene	ND	0.125						0	0	30	
1,2,3-Trichlorobenzene	ND	0.0700						0	0	30	
Surr: Dibromofluoromethane	2.40		2.500		96.1	80	121		0		
Surr: Toluene-d8	2.42		2.500		96.9	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.45		2.500		98.2	80	120		0		

NOTES:

R - High RPD observed.

Work Order: 2109054
 CLIENT: Blaes Environmental
 Project: Circle K# 6049

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-33600	SampType: LCS	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69760							
Client ID: LCSW	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414072							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	42.1	5.00	50.00	0	84.1	65	135				
Surr: 4-Bromofluorobenzene	2.46		2.500		98.6	65	135				
Surr: Toluene-d8	2.49		2.500		99.7	65	135				

Sample ID: MB-33600	SampType: MBLK	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69760							
Client ID: MBLKW	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414071							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.46		2.500		98.3	65	135				
Surr: Toluene-d8	2.49		2.500		99.8	65	135				

Sample ID: 2109054-002AREP	SampType: REP	Units: µg/L	Prep Date: 9/3/2021	RunNo: 69760							
Client ID: EFFLUENT	Batch ID: 33600		Analysis Date: 9/3/2021	SeqNo: 1414068							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	4.21	5.00						4.292	1.92	30	J
Surr: 4-Bromofluorobenzene	2.47		2.500		98.8	65	135		0		
Surr: Toluene-d8	2.49		2.500		99.4	65	135		0		

Client Name: **BLAES**

 Work Order Number: **2109054**

 Logged by: **Gabrielle Coeuille**

 Date Received: **9/2/2021 4:25:22 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
- Air samples**
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 9/2/21 Page: 1 of 1

Project Name: CIRCLE K # 6049

Project No: 802-6049

Collected by: D. BUES

Location: KENNELICK, WA

Report To (PM): DAN BUES

PM Email: DBUES@BUENAVENTURE.COM

Laboratory Project No (Internal): 2109054

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (Cl)***	EDB (8011)	Comments
1 INFLUENT	9/2/21	12:39	V	1	X	X											
2 EFFLUENT	9/2/21	12:28	V	1	X	X											
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Grde): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Grde): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) *[Signature]* Print Name: DAN BUES Date/Time: 9/2/21 4:30p
 Relinquished (Signature) *[Signature]* Print Name: Oliver Khan Date/Time: 9/2/21 1625

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)