District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

A third party closure report is included with this "Final." C-141.

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			Ttosp	701131	ole 1 al ej					
Responsible	Party: Ente	rprise Field Ser	vices, LLC	OGRID: 1	151618					
Contact Nan	ie: Thomas	Long	Contact Te	elephone: 505-599-2286						
Contact email:tjlong@eprod.com Incident #						(assigned by OCD): NCS1916849922				
Contact mail 87401	ing address:	614 Reilly Ave,	Farmington, N	M						
			Location	of R	elease So	ource				
Latitude 36.7	9392		Longitude _1	107.997	780	(NAD 83 in decimal degrees to 5 decimal places)				
Site Name B	uington G	C C#1B			Site Type N	latural Gas Gathering Pipeline				
Date Release	Discovered:	6/5/2019			Serial Num	ber (if applicable): NM 0 010996				
Unit Letter	Section	Township	Range		Count	ty				
M	21	30N	11W		San Ju	-				
Surface Owner	Material		Nature and	l Vol	ume of R	ustification for the volumes provided below)				
		Volume Release				Volume Recovered (bbls)				
Produced	water	Volume Release			- 4	Volume Recovered (bbls)				
		produced water >	ion of dissolved cl >10,000 mg/l?	hloride	in the	☐ Yes ☐ No				
Condensa	te		d (bbls): > 25 bb	is		Volume Recovered (bbls): None				
Natural Gas Volume Released (Mcf):						Volume Recovered (Mcf):				
Other (describe) Volume/Weight Released (provide units):						Volume/Weight Recovered (provide units)				
static pressur locked out an 17, 2019 due excavation di	e test. No flu d tagged out the volume mensions me	uids were observed t. Repairs and ren of impacted subs easured approxima	d on the ground sunediation began of urface soil. On Ju ately 58 feet long l	urface. n June ine 27, by 82 fe	No washes washes was 14, 2019 and 2019, Enterplet wide by a	GC C#1B natural gas pipeline while conducting a hydrovere affected. The pipeline was isolated, depressurized, described Enterprise determined this release reportable on June prise completed the repairs and remediation. The final approximately 17 feet deep. Approximately 2,532 cubic ico Oil Conservation Division approved land farm facility.				

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.								
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)								
Description of remediation activities								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jon E-fields Title: Director, Environmental Date: Title: Director, Environmental Telephone: (713) 381-6684								
OCD Only OCD 6/2/2020								
Received by: Date: 6/2/2020								
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.								
Closure Approved by: Date: 8/26/2020								
Closure Approved by: Cory Smith Date: 8/26/2020 Title: Environmental Specialist								



CLOSURE REPORT

Property:

Bruington GC C1B Pipeline Release SW ¼, S21 T30N R11W San Juan County, New Mexico

October 7, 2019 Ensolum Project No. 05A1226058

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Chad D'Aponti

Field Environmental Scientist

Ranee Deechilly

Environmental Scientist

Kyle Summers, CPG Sr. Project Manager

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CLOSURE REPORT

Bruington GC C1B Pipeline Release SW ¼, S21 T30N R11W San Juan County, New Mexico

Ensolum Project No. 05A1226058

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Bruington GC C1B Pipeline Release (Site)
Location:	36.79394° North, 107.99781° West Southwest (SW) ¼ of Section 21, Township 30 North, Range 11 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 4, 2019, Enterprise performed hydrostatic pressure testing on the Bruington GC C1B pipeline to evaluate the integrity of the pipeline. During the pressure test a leak was identified. On June 5, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- No water wells were identified within a one-half mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database.
- Two (2) cathodic-protection wells were identified within one-half mile of the Site. Data from the Morris A #6 cathodic protection well (Unit L, Sec 21 T20N R11W), located approximately 0.2 miles



from the Site, indicates water was identified at 140 feet below grade surface (bgs). Data from the Fifield #4 cathodic protection well (Unit E, Sec 21 T30N R11W), located approximately 0.4 miles from the Site, indicates water was identified at 100 feet bgs.

- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is located within 300 feet of a permanent residence, school, hospital, institution or church.
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No fresh water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release						
Constituent	Limit					
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg				
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100 mg/kg				
BTEX	EPA SW-846 Method 8021 or 8260	50 mg/kg				
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg				

3.0 SOIL REMEDIATION ACTIVITIES

On June 5, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities Sunland Construction, Inc. (Sunland), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 58 feet long and 82 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 17 feet bgs.



The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand underlain by mudstone and sandstone.

A total of approximately 2,532 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico and Industrial Ecosystems, Inc. (IEI) landfarm on Crouch Mesa, near Aztec, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix B**. The excavation was backfilled with imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils, and then contoured to surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system to guide excavation extents.

Ensolum's soil sampling program included the collection of 44 composite soil samples (S-1 through S-5, C-1 through C-34, and S-35 through S-39) comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, two (2) stockpiled soil samples (SP-1 and SP-2), consisting of five (5) aliquots each, were collected from overburden soils that were segregated for potential reuse to confirm the material was suitable to remain on-Site. A clean shovel was utilized to obtain fresh aliquots from each accessible area of the excavation. An excavator, operated by Sunland, was utilized to obtain fresh aliquots from areas of the excavation that exceeded depths greater than six (6) feet bgs. The New Mexico EMNRD OCD provided verbal approval to proceed with the June 7, June 20, June 24, and June 27 sampling events, although a New Mexico EMNRD OCD representative was not on-Site during sampling. A New Mexico EMNRD OCD representative was on-Site during the June 26, 2019 sampling event.

First Sampling Event

The initial pipeline repair excavation was sampled during the first sampling event to evaluate petroleum hydrocarbon impact. Composite soil samples S-1 (7') and S-5 (7') were collected from the floor of the excavation. Composite soil samples S-2 (0'-7'), S-3 (0'-7'), and S-4 (0'-7') were collected from the sidewalls of the initial repair excavation. Analytical results from composite soil sample S-1 (floor) from the initial repair excavation indicated a New Mexico EMNRD OCD closure standard exceedance. In response to the data exceedances, the excavation was extended to remove petroleum hydrocarbon impact. Soils associated with composite soil samples S-1 and S-5 were removed by excavation and transported to the Envirotech landfarm for disposal/remediation. Soils associated with composite soil samples S-2 through S-4 were excavated and segregated for testing, to evaluate for potential reuse.

Second Sampling Event

While removing soils associated with composite soil sample S-1, additional petroleum hydrocarbon impact from a historical release was encountered. Highly elevated COC concentrations were identified by field analyses at depths greater than seven (7) feet bgs. Due to the extent of the historical impact, the excavation and subsequent sampling was performed in stages. Prior to the second sampling event, the excavation was deepened and extended to the north and south. On June 20, 2019, composite soil samples C-1 (3'-17') and C-11 (3'-16) were collected from the north and south sidewalls of the extended excavation. Composite soil samples C-2 (17'), C-3 (17'), C-4 (17'), C-5 (17'), C-6 (17'), C-7 (17'), C-8 (16'), and C-10 (16') were collected from the floor of the extended excavation. Subsequent to receiving confirmation that the composite soil samples exhibited acceptable analytical results, the excavation was partially backfilled to provide pipeline support, allowing further excavation to the west and east.



Third Sampling Event

On June 24, 2019, composite soil samples C-12 (0'-15') and C-22 (0'-14') were collected from the north and south sidewalls of the western extension of the excavation. Composite soil samples C-13 (15'), C-14 (15'), C-15 (15'), C-16 (15'), C-17 (15'), C-18 (15'), C-19 (14'), C-20 (14'), and C-21 (14') were collected from the floor of the western extension of the excavation.

Fourth Sampling Event

On June 26, 2019, composite soil samples C-23 (0'-12') and C-29 (3'-12) were collected from the north and south sidewalls of the eastern extension of the excavation. Composite soil samples C-30 (3'-11'), C-31 (3'-11'), C-32 (3'-11'), C-33 (3'-11'), and C-34 (3'-11') were collected from the eastern sidewall of the extended excavation. Composite soil samples C-24 (12'), C-25 (12'), C-26 (12'), C-27 (12'), and C-28 (12') were collected from the floor of the eastern extension of the excavation. A New Mexico EMNRD OCD representative was on-Site during the June 26, 2019 sampling event, and approved the adjusted sampling frequencies and location for this and the remaining sampling event.

Fifth Sampling Event

On June 27, 2019, composite soil samples S-35 (3'-15'), S-36 (3'-15'), S-37 (3'-15), S-38 (3'-14'), and S-39 (3'-14') were collected from the west sidewall of the western extension of the excavation.

Soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021/8260, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (C-1 through C-34, S-35 through S-39, S-2 through S-4, SP-1, and SP-2) to the applicable New Mexico EMNRD OCD closure criteria. Soils associated with composite soil samples S-1 and S-5 were removed from the Site and transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

- The laboratory analytical results for composite soil sample C-33 indicates a benzene concentration
 of 0.027 milligrams per kilogram (mg/kg), which is less than the New Mexico EMNRD OCD closure
 criteria of 10 mg/kg. The laboratory analytical results for the remaining composite soil samples
 collected from soils remaining at the Site indicate benzene is not present in concentrations greater
 than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria
 of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for composite soil samples S-3, C-3, C-29, C-31 through C-34, S-36, and S-37 indicate total BTEX concentrations ranging from 0.064 mg/kg (C-29) to 1.07 mg/kg (C-31), which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg. The



laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S-3, C-12, C-29, C-32, and C-33 indicate combined TPH GRO/DRO/MRO concentrations ranging from 9.7 mg/kg (C-12) to 37 mg/kg (S-3), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil sample S-3 indicates a chloride concentration
 of 140 milligrams per kilogram (mg/kg), which is less than the New Mexico EMNRD OCD closure
 criteria of 600 mg/kg. The laboratory analytical results for the remaining composite soil samples
 collected from soils remaining at the Site indicate chloride is not present in concentrations greater
 than laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of
 600 mg/kg for chlorides.

Laboratory analytical results are summarized in **Table 1** (**Appendix D**).

7.0 RECLAMATION AND RE-VEGETATION

The excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils, and was then contoured to the surrounding grade. Enterprise will re-seed the Site with a BLM Farmington Field Office approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

On June 4, 2019, Enterprise performed hydrostatic pressure testing on the Bruington GC C1B pipeline to evaluate the integrity of the pipeline. During the pressure test a leak was identified. On June 5, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- A total of 46 composite soil samples were collected from the excavation and stockpiled soils for laboratory analyses. Based on soil laboratory analytical results, soils remaining at the Site do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 2,532 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico, and IEI landfarm on Crouch Mesa, near Aztec, New Mexico for disposal/remediation. The excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils, and was then contoured to surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.



9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).

9.2 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

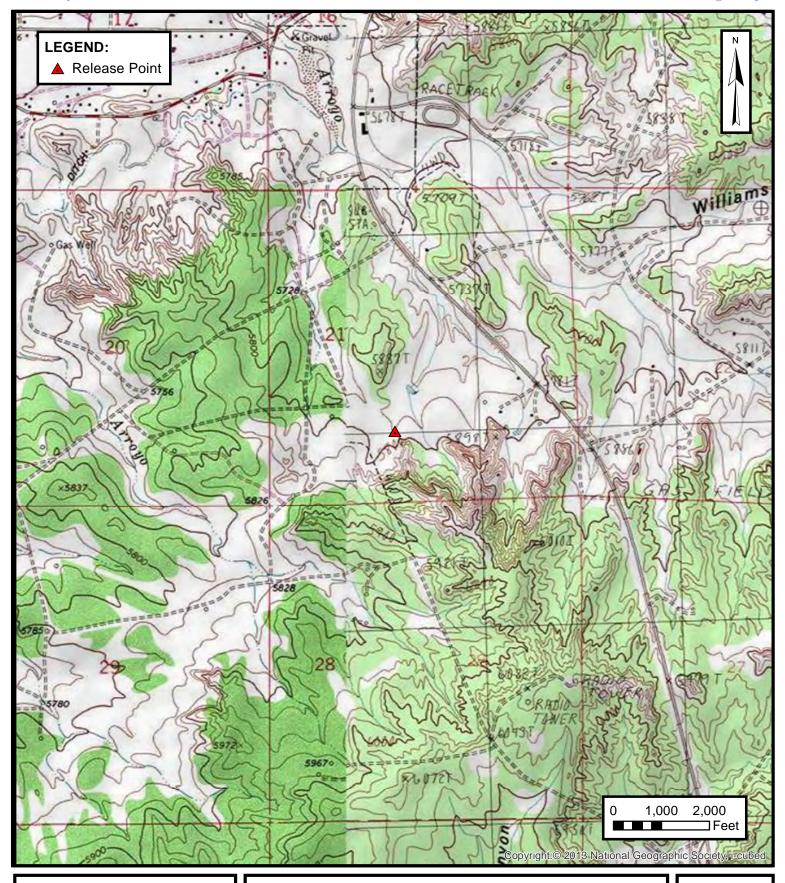
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Products Operating LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Products Operating LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures





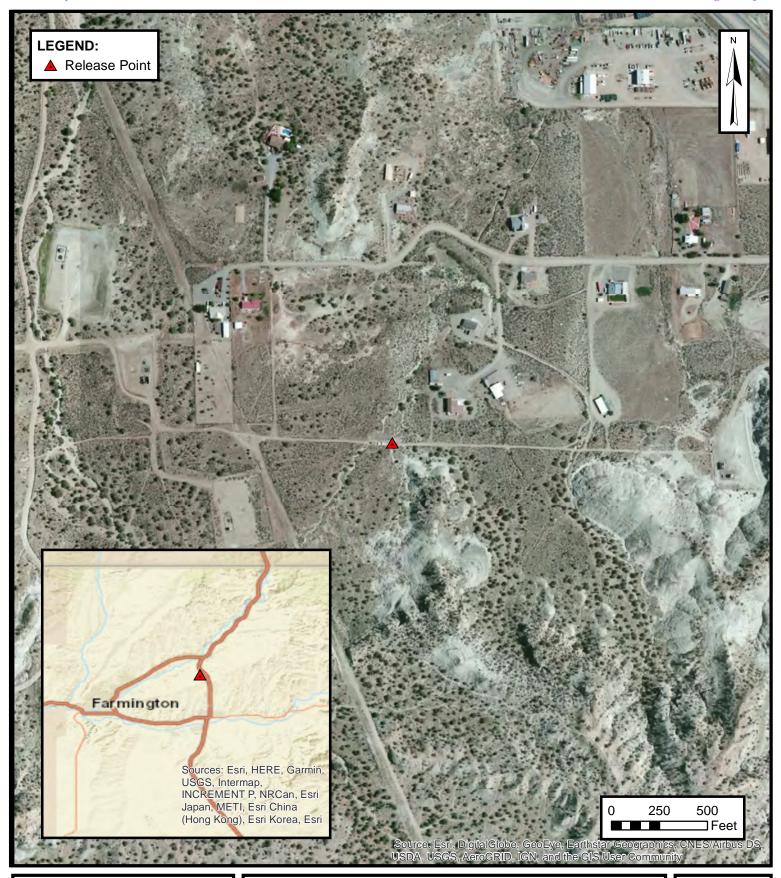
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC BRUINGTON GC #1B RELEASE SW ¼, S21 T30N R11W, San Juan County, New Mexico 36.79394° N, 107.99781° W

PROJECT NUMBER: 05A1226058

FIGURE

1





SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC BRUINGTON GC #1B RELEASE SW ¼, S21 T30N R11W, San Juan County, New Mexico 36.79394° N, 107.99781° W

PROJECT NUMBER: 05A1226058

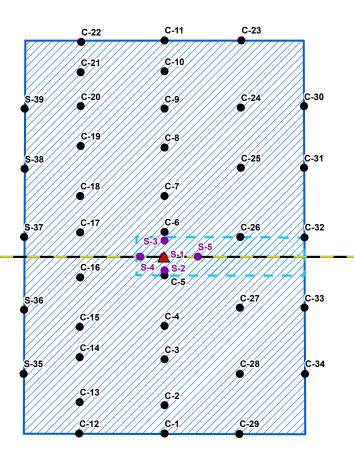
FIGURE

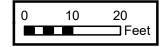
2

LEGEND:

- ▲ Release Point
- Composite Soil Sample Location
- Composite Soil Sample Location (Removed by Excavation)
- ---Pipeline
- Extent of Initial Excavation
- Extent of Remediation Excavation









SITE MAP

ENTERPRISE FIELD SERVICES, LLC BRUINGTON GC #1B RELEASE SW ¼, S21 T30N R11W, San Juan County, New Mexico 36.79394° N, 107.99781° W

PROJECT NUMBER: 05A1226058

FIGURE

3



APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources 97057-1014 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-138 Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

1220 S. St. Francis Dr., Santa Fe, NM 87505	
REQUEST FOR APPROVAL TO ACCEPT SO	
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	Invoicing Information AFE: N43024 PM: Chad Timmerman PayKeyRB21200
2. Originating Site: Bruington GC 1B Pipeline	
3. Location of Material (Street Address, City, State or ULSTR): UL M Section 2 T30N R11W; 36.79392, -107.99780	June 2019
4. Source and Description of Waste: Source: Excavation Spoils from a Leak from a Natural Gas Gathering Pipeline Description: Soil impacted with Natural Gas Liquids (Condensate and Water) Estimated Volume 50 (yd³) bbls Known Volume (to be entered by the operator at the end of	the haul) 468 (d³) obls
5. GENERATOR CERTIFICATION STATEMENT OF WAST	E STATUS
I, Thomas Long, representative or authorized agent for Enterprise Products Operating a Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Envirogulatory determination, the above described waste is: (Check the appropriate classification)	
□ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production exempt waste. Operator Use Only: Waste Acceptance Frequency □ Monthly □ Wood waste.	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the m characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous subpart D, as amended. The following documentation is attached to demonstrate the above-the appropriate items)	waste as defined in 40 CFR, part 261,
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ C	Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMEN	NT FOR LANDFARMS
I, Thomas Long 6-18-19, representative for Enterprise Products Operating authorizes E Generator Signature the required testing/sign the Generator Waste Testing Certification. I,	do hereby certify that for chloride content and that the samples tion 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to	the requirements of Section 15 of
19.15.36 NMAC. 5. Transporter: Sunland Construction or subcontractors. Stan Horn, OFT, 1	Maca Paul 16a
OCD Permitted Surface Waste Management Facility	MESK, TAKIT JON
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM 0 Address of Facility: Hilltop, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm	
Waste Acceptance Status:	one De Material de D
APPROVED DENIED (M	ust Be Maintained As Permanent Record)
PRINT NAME: TYPE (NE STREE TITLE: CONTROL THROUGH	DATE: 6/14/10

505-632-0615

Surface Waste Management Facility Authorized Agent

5

Form C-138

Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. Santa Fe, NM 87505

strict IV 20 S. St. Francis Dr., Santa Fe, NM 87505 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE **Invoicing Information** 1. Generator Name and Address: AFE: N43024 Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 PM: Chad Timmerman PayKeyRB21200

2. Originating Site: Bruington GC 1B Pipeline	
Bruington GC 1B Tipenne	(balia - 60 9ds
3. Location of Material (Street Address, City, State or ULSTR):	12/10 2/19/10
UL M Section 2 T30N R11W; 36.79392, -107.99780	4 Della - 3724
	1 2119 21900
4. Source and Description of Waste:	619411-
Source: Excavation Spoils from a Leak from a Natural Gas Gathering Pipeline	6/21/19-6/240
Description: Soil impacted with Natural Gas Liquids (Condensate and Water) Estimated Volume 50 (yd³) bbls Known Volume (to be entered by the operator at the end of the haul)	300 (d)/bbls
Estimated volume _50 yd bots Known volume (to be entered by the operator at the end of the matr) _	<u>500</u> (gg/ 00is
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	ı
I, Thomas Long , representative or authorized agent for Enterprise Products Operating do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Pregulatory determination, the above described waste is: (Check the appropriate classification)	rotection Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations a exempt waste. **Operator Use Only: Waste Acceptance Frequency Monthly Weekly Performance Perfo	and are not mixed with non-
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum star characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as de subpart D, as amended. The following documentation is attached to demonstrate the above-described was the appropriate items)	fined in 40 CFR, part 261,
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Providence of the Control of t	de description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LA	NDFARMS
I, Thomas Long 6-18-19, representative for Enterprise Products Operating authorizes IEI, Inc. to concern to the required testing/sign the Generator Waste Testing Certification. I, Louis Louis Annual Certification. IEI, Inc. do her representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19 of the representative samples are attached to demonstrate the above-described waste conform to the requirements.	reby certify that content and that the samples 0.15.36 NMAC. The results
19.15.36 NMAC.	
5. Transporter: Sunland Construction or subcontractors.	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B Address of Facility: #49 CR 2150 Aztec, New Mexico	DN -7
Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill C	Other (1-141
Waste Acceptance Status:	•
PRINT NAME: 214 State TITLE: DENIED (Must Be Main TITLE: TELEPHONE NO.: 505-632-1782	DATE: 6/20(5
C. C. West Manager To	and the second s



APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Bruington GC C1B Pipeline Release Ensolum Project No. 05A1226058



Photograph 1

Photograph Description: View of the initial excavation.



Photograph 2

Photograph Description: View of in-process excavation activities.



Photograph 3

Photograph Description: View of in-process excavation activities.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Bruington GC C1B Pipeline Release Ensolum Project No. 05A1226058



Photograph 4

Photograph Description: View of in-process excavation activities.



Photograph 5

Photograph Description: View of in-process excavation activities.



Photograph 6

Photograph Description: View of the final excavation after initial restoration.





APPENDIX D

Table 1 – Soil Analytical Summary

TABLE 1 Bruington GC C1B Pipeline Release SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH	Chloride (mg/kg)
		G - Grab	(icct)	(mg/kg)	(mg/kg/	(mg/kg)	(mg/kg)	(mg/kg)	CIG	DICO	MICO		(IIIg/Kg)
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
New Mexico Energy Mineral & Natural Resources Department Oil Conservation Division Closure Criteria			10	NE	NE	NE	50				100	600	
						Stockpile	ed Soil Samples						
SP-1	6.07.19	С	Stockpile	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.8	<49	ND	<60
SP-2	6.07.19	С	Stockpile	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.7	<49	ND	<60
-					, ,	Soil Samples Rem							
S-1	6.07.19	С	7	<0.12	0.85	0.92	17	19	160	33	<46	193	200
S-5	6.07.19	С	7	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.7	<48	ND	<60
6.0	0.07.40		04-7	-	-	ples Removed by E					-110	I ND I	~60
S-2 S-3	6.07.19 6.07.19	C	0 to 7 0 to 7	<0.022 <0.020	<0.044 <0.040	<0.044 <0.040	<0.088 0.22	ND 0.22	<4.4 <4.0	<9.9 37	<49 <48	ND 37	<60 140
S-3 S-4	6.07.19	C	0 to 7	<0.020	<0.040	<0.040	<0.091	ND	<4.0 <4.5	<9.6	<48	ND	<60
3-4	0.07.19		0 10 7	~ 0.023	<0.043		omposite Soil Sam		~4. 3	~9.0	\40	ND	<u> </u>
C-1	6.20.19	С	3 to 17	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.7	<48	ND	<60
C-2	6.20.19	C	17	<0.022	<0.043	<0.043	<0.086	ND	<4.3	<9.7	<48	ND	<60
C-3	6.20.19	С	17	<0.025	<0.049	<0.049	0.12	0.12	<4.9	<9.6	<48	ND ND	<60
C-4	6.20.19	С	17	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<10	<50	ND ND	<60
C-5	6.20.19	C	17	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.7	<48	ND ND	<60
C-6	6.20.19	C	17	<0.022	<0.045	<0.045	<0.089	ND	<4.5	<9.8	<49	ND ND	<60
C-7	6.20.19	C	17	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.3	<46	ND ND	<60
C-8	6.20.19	C	16	<0.024	<0.049	<0.049	<0.083	ND	<4.2	<9.9	<49	ND ND	<60
C-9	6.20.19	C	16	<0.021	<0.044	<0.042	<0.088	ND	<4.4	<10	<50	ND ND	<60
C-10	6.20.19	C	16	<0.022	<0.056	<0.044	<0.11	ND	<5.6	<10	<50	ND ND	<60
C-10	6.20.19	С	3 to 16	<0.028	<0.030	<0.030	<0.082	ND	<4.1	<9.7	<48	ND ND	
C-11	6.24.19	С	0 to 15	<0.021	<0.041	<0.041	<0.082	ND	<4.1	9.7	<47	9.7	<60
C-12 C-13	6.24.19	C	15	<0.025	<0.049	<0.049	<0.098	ND ND	<4.9 <4.9	9.7 <9.8	<47	9.7 ND	<60
		C										!	<60
C-14	6.24.19		15	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.7	<48	ND	<60
C-15	6.24.19	С	15	<0.023	<0.045	<0.045	<0.090	ND	<4.5	<9.9	<49	ND	<60
C-16	6.24.19	С	15	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.5	<47	ND	<60
C-17	6.24.19	С	15	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.2	<46	ND	<60
C-18	6.24.19	С	15	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<10	<50	ND	<60
C-19	6.24.19	С	14	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.8	<49	ND	<60
C-20	6.24.19	С	14	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<10	<50	ND	<60
C-21	6.24.19	С	14	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.7	<48	ND	<59
C-22	6.24.19	С	0 to 14	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<10	<50	ND	<60



TABLE 1 **Bruington GC C1B Pipeline Release** SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH	Chloride (mg/kg)
		G - Grab	(1001)	(9)	(9/1.9)	(9/1.9)	(mg/ng)	(9/1.9)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(9/1.9)
New Mexico Energy Mineral & Natural Resources Department Oil Conservation Division Closure Criteria			10	NE	NE	NE	50				100	600	
C-23	6.26.19	С	0 to 12	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<10	<50	ND	<60
C-24	6.26.19	С	12	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.9	<49	ND	<60
C-25	6.26.19	С	12	<0.018	<0.035	< 0.035	<0.070	ND	<3.5	<9.3	<47	ND	<60
C-26	6.26.19	С	12	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.3	<47	ND	<60
C-27	6.26.19	С	12	<0.021	<0.043	<0.043	<0.085	ND	<4.3	<9.6	<48	ND	<60
C-28	6.26.19	С	12	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.7	<48	ND	<60
C-29	6.26.19	С	3 to 12	<0.022	0.064	<0.044	<0.088	0.064	13	<9.6	<48	13	<60
C-30	6.26.19	С	3 to 11	<0.10	<0.21	<0.21	<0.41	ND	<21	<9.7	<49	ND	<60
C-31	6.26.19	С	3 to 11	<0.10	0.35	<0.20	<0.40	0.35	34	<9.6	<48	ND	<60
C-32	6.26.19	С	3 to 11	<0.10	0.40	<0.21	0.67	1.07	23	<9.6	<48	23	<60
C-33	6.26.19	С	3 to 11	0.027	0.22	< 0.037	0.30	0.55	12	<9.3	<46	12	<60
C-34	6.26.19	С	3 to 11	<0.018	0.069	<0.037	0.095	0.164	<3.7	<9.4	<47	ND	<60
S-35	6.27.19	С	3 to 15	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<9.4	<47	ND	<60
S-36	6.27.19	С	3 to 15	<0.021	0.16	<0.042	0.15	0.31	<4.2	<9.9	<50	ND	<60
S-37	6.27.19	С	3 to 15	<0.022	0.14	<0.045	0.12	0.26	<4.5	<9.3	<47	ND	<60
S-38	6.27.19	С	3 to 14	<0.023	<0.45	<0.045	<0.090	ND	<4.5	<9.1	<45	ND	<60
S-39	6.27.19	С	3 to 14	<0.019	<0.039	< 0.039	<0.077	ND	<3.9	<9.3	<47	ND	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits

NA = Not Analyzed

NE = Not established mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX E

Laboratory Data Sheets & Chain of Custody Documentation



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 11, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603

FAX

RE: Bruington GC C1B East

OrderNo.: 1906462

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

Project: Bruington GC C1B East Collection Date: 6/7/2019 1:15:00 PM

Lab ID: 1906462-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	200	60		mg/Kg	20	6/10/2019 10:53:13 AM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	TOM
Diesel Range Organics (DRO)	33	9.2		mg/Kg	1	6/10/2019 11:07:16 AM	45459
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/10/2019 11:07:16 AM	45459
Surr: DNOP	87.1	70-130		%Rec	1	6/10/2019 11:07:16 AM	45459
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	160	24		mg/Kg	5	6/10/2019 10:48:29 AM	C60517
Surr: BFB	184	73.8-119	S	%Rec	5	6/10/2019 10:48:29 AM	C60517
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	6/10/2019 10:48:29 AM	D60517
Toluene	0.85	0.24		mg/Kg	5	6/10/2019 10:48:29 AM	D60517
Ethylbenzene	0.92	0.24		mg/Kg	5	6/10/2019 10:48:29 AM	D60517
Xylenes, Total	17	0.49		mg/Kg	5	6/10/2019 10:48:29 AM	D60517
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	5	6/10/2019 10:48:29 AM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
outing Limit Page 1 of 9

Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

Project: Bruington GC C1B East **Collection Date:** 6/7/2019 1:20:00 PM

Lab ID: 1906462-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/10/2019 11:05:38 AM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/10/2019 11:31:39 AM	45459
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2019 11:31:39 AM	45459
Surr: DNOP	87.9	70-130	%Rec	1	6/10/2019 11:31:39 AM	45459
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	6/10/2019 11:11:56 AM	C60517
Surr: BFB	86.4	73.8-119	%Rec	1	6/10/2019 11:11:56 AM	C60517
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	6/10/2019 11:11:56 AM	D60517
Toluene	ND	0.044	mg/Kg	1	6/10/2019 11:11:56 AM	D60517
Ethylbenzene	ND	0.044	mg/Kg	1	6/10/2019 11:11:56 AM	D60517
Xylenes, Total	ND	0.088	mg/Kg	1	6/10/2019 11:11:56 AM	D60517
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	6/10/2019 11:11:56 AM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
Page 2 of 9

Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

Project: Bruington GC C1B East **Collection Date:** 6/7/2019 1:25:00 PM

Lab ID: 1906462-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	140	60	mg/Kg	20	6/10/2019 11:18:02 AM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	TOM
Diesel Range Organics (DRO)	37	9.6	mg/Kg	1	6/10/2019 11:56:01 AM	45459
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/10/2019 11:56:01 AM	45459
Surr: DNOP	88.4	70-130	%Rec	1	6/10/2019 11:56:01 AM	45459
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/10/2019 11:35:13 AM	C60517
Surr: BFB	102	73.8-119	%Rec	1	6/10/2019 11:35:13 AM	C60517
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.020	mg/Kg	1	6/10/2019 11:35:13 AM	D60517
Toluene	ND	0.040	mg/Kg	1	6/10/2019 11:35:13 AM	D60517
Ethylbenzene	ND	0.040	mg/Kg	1	6/10/2019 11:35:13 AM	D60517
Xylenes, Total	0.22	0.081	mg/Kg	1	6/10/2019 11:35:13 AM	D60517
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	6/10/2019 11:35:13 AM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 9

Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

Project: Bruington GC C1B East **Collection Date:** 6/7/2019 1:30:00 PM

1906462-004 Lab ID: Matrix: MEOH (SOIL) Received Date: 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/10/2019 11:30:26 AM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/10/2019 12:20:33 PM	45459
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/10/2019 12:20:33 PM	45459
Surr: DNOP	88.4	70-130	%Rec	1	6/10/2019 12:20:33 PM	45459
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	6/10/2019 11:58:33 AM	C60517
Surr: BFB	86.1	73.8-119	%Rec	1	6/10/2019 11:58:33 AM	C60517
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	6/10/2019 11:58:33 AM	D60517
Toluene	ND	0.045	mg/Kg	1	6/10/2019 11:58:33 AM	D60517
Ethylbenzene	ND	0.045	mg/Kg	1	6/10/2019 11:58:33 AM	D60517
Xylenes, Total	ND	0.091	mg/Kg	1	6/10/2019 11:58:33 AM	D60517
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/10/2019 11:58:33 AM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

Project: Bruington GC C1B East **Collection Date:** 6/7/2019 1:35:00 PM

Lab ID: 1906462-005 **Matrix:** MEOH (SOIL) **Received Date:** 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/10/2019 11:42:50 AM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/10/2019 12:44:59 PM	45459
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/10/2019 12:44:59 PM	45459
Surr: DNOP	87.8	70-130	%Rec	1	6/10/2019 12:44:59 PM	45459
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/10/2019 12:21:56 PM	C60517
Surr: BFB	90.7	73.8-119	%Rec	1	6/10/2019 12:21:56 PM	C60517
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/10/2019 12:21:56 PM	D60517
Toluene	ND	0.039	mg/Kg	1	6/10/2019 12:21:56 PM	D60517
Ethylbenzene	ND	0.039	mg/Kg	1	6/10/2019 12:21:56 PM	D60517
Xylenes, Total	ND	0.078	mg/Kg	1	6/10/2019 12:21:56 PM	D60517
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	6/10/2019 12:21:56 PM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906462**

11-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B East

Sample ID: MB-45461 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45461 RunNo: 60521

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2048088 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-45461 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45461 RunNo: 60521

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2048089 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 9

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906462** *11-Jun-19*

Client: ENSOLUM

Project: Bruington GC C1B East

Sample ID: MB-45459 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 45459 RunNo: 60523

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SegNo: 2047589 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.6 10.00 96.0 70 130

Sample ID: LCS-45459 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 45459 RunNo: 60523

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2047590 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 63.9 50.00 95.7 124

Surr: DNOP 4.8 5.000 96.1 70 130

Sample ID: MB-45450 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 45450 RunNo: 60512

Prep Date: 6/7/2019 Analysis Date: 6/10/2019 SeqNo: 2047733 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 10 10.00 10.00 70 130

Sample ID: LCS-45450 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 45450 RunNo: 60512

Prep Date: 6/7/2019 Analysis Date: 6/10/2019 SeqNo: 2047735 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.9 5.000 77.6 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906462**

11-Jun-19

Client: ENSOLUM

Surr: BFB

Project: Bruington GC C1B East

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: C60517 RunNo: 60517

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047718 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 88.3 73.8 119

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: C60517 RunNo: 60517

1000

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047719 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.1 80.1 123

104

73.8

119

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906462**

11-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B East

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: D60517 RunNo: 60517

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047751 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: D60517 RunNo: 60517

Prep Date:	Analysis [Date: 6/	10/2019	5	SeqNo: 2	047752	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID: 1906462-001AMS	Samp	Гуре: М	6	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: S-1	Batc	h ID: D6	0517	F	RunNo: 6	0517				
Prep Date:	Analysis [Date: 6/	10/2019	5	SeqNo: 2	047754	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.6	0.12	4.897	0.1107	92.0	63.9	127			
Toluene	5.9	0.24	4.897	0.8526	102	69.9	131			
Ethylbenzene	6.1	0.24	4.897	0.9236	106	71	132			
Xylenes, Total	34	0.49	14.69	17.24	116	71.8	131			
Surr: 4-Bromofluorobenzene	5.9		4.897		121	80	120			S

Sample ID: 1906462-001AM	ISD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S-1	Batch	ID: D6	0517	F	RunNo: 6	0517				
Prep Date:	Analysis D	ate: 6/	10/2019	5	SeqNo: 2	047755	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4.5	0.12	4.897	0.1107	89.6	63.9	127	2.58	20	
Toluene	5.7	0.24	4.897	0.8526	98.0	69.9	131	3.50	20	
Ethylbenzene	5.9	0.24	4.897	0.9236	101	71	132	4.33	20	
Xylenes, Total	33	0.49	14.69	17.24	108	71.8	131	3.67	20	
Surr: 4-Bromofluorobenzene	5.8		4.897		118	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Cli	ient Name:	ENSOLUM	AZTEC	Work	Order Numb	oer: 1906	462		RcptN	No: 1
Re	ceived By:	Isaiah Ort	iz	6/8/201	9 10:00:00	AM		I ~ C	2-4	
Co	mpleted By:	Leah Baca	а	6/9/201	9 1:37:04 PI	М		In Page		
Re	viewed By: 7	mm 6-1	0-19					Lungs		
Ch	ain of Cust	tody								
1.	Is Chain of Cu	stody comp	lete?			Yes	~	No 🗌	Not Present	
2.	How was the s	sample deliv	ered?			Couri	<u>er</u>			
Lo	g In									
10/25	Was an attem	pt made to c	ool the samp	les?		Yes	✓	No 🗆	NA 🗆	
4. V	Vere all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes	~	No 🗌	NA 🗆	
5. \$	Sample(s) in p	oroper contai	ner(s)?			Yes	~	No 🗌		
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
6. 8	Sufficient samp	ple volume fo	or indicated te	est(s)?		Yes		No 🗌		
7. A	re samples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes	/	No 🗌		
8. v	Vas preservat	ive added to	bottles?			Yes [No 🗸	NA 🗆	
9. v	/OA vials have	e zero heads	space?			Yes	7	No 🗌	No VOA Vials	
	Nere any sam		52	roken?		Yes		No 🗸	[
									# of preserved bottles checked	
	oes paperwo					Yes	/	No 🗌	for pH:	/
	Note discrepa re matrices c					Yes		No 🗌	Adjusted?	or >12 unless noted)
	s it clear what							No 🗆		
14. v	Vere all holdin	g times able	to be met?				/	No 🗆	Checked by:	DAD 6/10/19
(1	If no, notify cu	stomer for a	uthorization.)							
Spe	cial Handli	ng (if app	licable)							
15.\	Was client not	tified of all di	screpancies v	vith this order?		Yes		No 🗌	NA 🗸	
	Person I	Notified:			Date	T			:	
	By Who	m:			Via:	eMai	I F	Phone Fax	☐ In Person	
	Regardir									
		structions:								
16.	Additional ren	narks:								
17.	Cooler Inform									
	Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Da	e	Signed By		
	1	1.4	Good	Yes						

Chain-of-Custody Record	Turn-Around Time:	Time:	e listin		1						Recei
Client: Ensolum, LLC	- □ Standard	Rush			I	HALL ENVI	EN	<u>r</u> .		ENVIRONMENTAL	. ;
	Δ.	in	0,70		1					ABORATOR	_
Mailing Address: 6060, Ric Grande Suite A		150 val	CLIS EAST	4901 F	4901 Hawkins NE	N. IIa	Albuq	ns NE - Albuquerque, NM 87109	N N	87109	D: 6/
ABJEC NYM 84410	Project #:	8509EE1450	250	Tel. 5(505-345-3975	3975	Fax	505-3	505-345-4107	107	2/20
Phone #:			Participant of the Company			A	Analysis		est		20 6
email or Fax#: (Summers @ ensairum, com	Project Manager		KS ummers			100	†O¹		(ţu		26:
QA/QC Package:				ЯМ	31	014	S '*		əsq		48
☐ Standard ☐ Level 4 (Full Validation)				/ O	VISC		ЬО		IA\Jı		AM
Accreditation: Az Compliance	Sampler:	2	dri 114	DB.			O ⁵ '		Jəsə		
. 1	On Ice:	XIII	ON D	/ O?			N "				
□ EDD (Type)	# of Coolers:	/	(-62)	4Đ)				ΟΛ-		Sol	
	Cooler Temp(including CF):	(including CF).	6.1	12D				imə	,	יגוס	
Date Time Matrix Sample Name	Container Type and #	Preservative Tvpe	HEAL NO.	.\ X∃TE `08:HЧ٦ 59 \ 1808	M) BDE	SCRA 8	21, F, B V) 08S8	S) 07S8	Otal Co	CMG	
9 1315 5	1 You Jar	6001	100-	>				3	×		
6/4/19/1320 5 8-2	1 402 Jar	1000	- 002	.×					×		
6(7/19/1325 5 8-3	1 402 Jac	(00)	- 003	×					×		
WHM 1330 5 5-4	1 402 Jar	Cool	700A	\times	- 5				X		
U17/19 1335 S S-S	1 40- Jal	1000	500-	メメ	391				X		
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		And the second second			3 2						
Time: (54 \$			1	Remarks:		DW-1	Fo	om l	Pessis	(FPRON)	Pa
Date: Time: Relinquished by:	Received by:	Via:	Date Time (000)	8-0AU							ge 36 of
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other ac	credited laboratorie	s. This serves as notice of thi	s possibility. Any su	ib-contract	ed data w	ill be clea	rly notated	d on the	analytical report.	123



Website: www.hallenvironmental.com

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

OrderNo.: 1906463

4901 Hawkins NE

Albuquerque, NM 87109

June 11, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603

FAX

RE: Bruington GC C1B East

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1906463

Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-1

Project: Bruington GC C1B East Collection Date: 6/7/2019 1:45:00 PM

Lab ID: 1906463-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	smb
Chloride	ND	60	mg/Kg	20	6/10/2019 11:55:14 AM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/10/2019 12:26:18 PM	45459
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2019 12:26:18 PM	45459
Surr: DNOP	98.0	70-130	%Rec	1	6/10/2019 12:26:18 PM	45459
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/10/2019 12:45:29 PM	C60517
Surr: BFB	97.3	73.8-119	%Rec	1	6/10/2019 12:45:29 PM	C60517
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	6/10/2019 12:45:29 PM	D60517
Toluene	ND	0.040	mg/Kg	1	6/10/2019 12:45:29 PM	D60517
Ethylbenzene	ND	0.040	mg/Kg	1	6/10/2019 12:45:29 PM	D60517
Xylenes, Total	ND	0.080	mg/Kg	1	6/10/2019 12:45:29 PM	D60517
Surr: 4-Bromofluorobenzene	117	80-120	%Rec	1	6/10/2019 12:45:29 PM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
Page 1 of 6

Analytical Report Lab Order 1906463

Date Reported: 6/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-2

Project: Bruington GC C1B East **Collection Date:** 6/7/2019 1:50:00 PM

1906463-002 Lab ID: Matrix: MEOH (SOIL) Received Date: 6/8/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/10/2019 12:07:39 PM	45461
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/10/2019 12:48:16 PM	45459
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2019 12:48:16 PM	45459
Surr: DNOP	103	70-130	%Rec	1	6/10/2019 12:48:16 PM	45459
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/10/2019 1:08:51 PM	C60517
Surr: BFB	89.2	73.8-119	%Rec	1	6/10/2019 1:08:51 PM	C60517
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	6/10/2019 1:08:51 PM	D60517
Toluene	ND	0.039	mg/Kg	1	6/10/2019 1:08:51 PM	D60517
Ethylbenzene	ND	0.039	mg/Kg	1	6/10/2019 1:08:51 PM	D60517
Xylenes, Total	ND	0.078	mg/Kg	1	6/10/2019 1:08:51 PM	D60517
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	6/10/2019 1:08:51 PM	D60517

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906463**

11-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B East

Sample ID: MB-45461 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45461 RunNo: 60521

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2048088 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-45461 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45461 RunNo: 60521

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2048089 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906463**

11-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B East

Sample ID: MB-45459 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 45459 RunNo: 60523

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2047589 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.6 10.00 96.0 70 130

Sample ID: LCS-45459 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 45459 RunNo: 60523

Prep Date: 6/10/2019 Analysis Date: 6/10/2019 SeqNo: 2047590 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 63.9 50.00 95.7 124

Surr: DNOP 4.8 5.000 96.1 70 130

Sample ID: MB-45450 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 45450 RunNo: 60512

Prep Date: 6/7/2019 Analysis Date: 6/10/2019 SeqNo: 2047733 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 10 10.00 100 70 130

Sample ID: LCS-45450 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 45450 RunNo: 60512

3.9

Prep Date: 6/7/2019 Analysis Date: 6/10/2019 SeqNo: 2047735 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

77.6

70

130

5.000

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906463**

11-Jun-19

Client: ENSOLUM

Surr: BFB

Project: Bruington GC C1B East

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: C60517 RunNo: 60517

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047718 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 88.3 73.8 119

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: C60517 RunNo: 60517

1000

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047719 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.1 80.1 123

104

73.8

119

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906463**

11-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B East

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: D60517 RunNo: 60517

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047751 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 104
 80
 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: D60517 RunNo: 60517

Prep Date: Analysis Date: 6/10/2019 SeqNo: 2047752 Units: mg/Kg

Frep Date.	Allalysis L	Jaie. 6/	10/2019		eqino. Zi	04//32	Office. Ing/r	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.025	1.000	0	88.4	80	120				
Toluene	0.93	0.050	1.000	0	93.2	80	120				
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120				
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	ent Name:	ENSOLUM	AZTEC	Work	Order Numb	er: 1906	6463			RcptNo:	l
Rece	eived By:	Isaiah Ort	iz	6/8/201	9 10:00:00 A	M		-de	~ C	2/	
Com	npleted By:	Leah Baca	1	6/9/201	9 1:44:46 PM	И		Lah	Bace	٩	
Revi	iewed By: /	hm 6-10	19					,,			
<u>Cha</u>	in of Cust	tody									
1. Is	Chain of Cu	stody compl	ete?			Yes	V	No		Not Present	
2. H	ow was the s	sample deliv	ered?			Cour	rier				
Log	g In										
688		pt made to c	ool the sampl	es?		Yes	~	No		NA 🗆	
4. W	ere all samp	les received	at a temperat	ure of >0° C t	o 6.0°C	Yes	V	No		NA 🗆	
5. s	ample(s) in p	roper contai	ner(s)?			Yes	V	No			
6. St	ufficient samp	ole volume fo	or indicated te	st(s)?		Yes	✓	No			
7. Ar	e samples (e	except VOA a	and ONG) pro	perly preserve	d?	Yes	✓	No			
8. W	as preservati	ive added to	bottles?			Yes		No	✓	NA 🗌	
9. vo	OA vials have	zero heads	pace?			Yes		No		No VOA Vials 🗹	
10. W	ere any sam	ple containe	rs received br	oken?		Yes		No	V	# of preserved	/
11 D	oes paperwor	de matab bat	Ha labala O					No	П	bottles checked	
	The state of the s		iie labeis? in of custody)			Yes	V	No		for pH: (<2 or>	12 unless noted)
12. Ar	e matrices co	orrectly ident	ified on Chair	of Custody?		Yes	✓	No		Adjusted?	
13. ls	it clear what	analyses we	re requested?	•		Yes	✓	No			
	ere all holdin no, notify cu	~				Yes	V	No		Checked by: DA	D 6/10/19
	ial Handli		1.58								
			screpancies w	rith this order?	ri.	Yes		No		NA 🗹	
	Person N	Notified:			Date				***************************************		
	By Whor	m:			Via:	еМа	ail 🔲	Phone	Fax	☐ In Person	
	Regardir	ng:					***************************************		************		
	Client In:	structions:							***************************************		
16. A	dditional rem	narks:									
17. <u>c</u>	Cooler Inform	nation									
	Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed I	Ву		
	1	1.4	Good	Yes	Allerance						

Chain-of-Custody Record	Turn-Around Time:								Rece
Client:		51119		HALL			201	ENVIRONMENTAL	ived
Ensolum, LLC	☐ Standard 🗡 Rush	sh		Z	ANALYSTS	S	AB	ABORATOR	>
	Project Name:	4		VOVO	www.hallenvironmental.com		0 0		
Mailing Address: (Oce S. R.O Grande, Suite A	Israington of this East	CTIS East	4901 Hz	4901 Hawkins NF	, 8		Id. Sol	Albuquerane NM 87109	CD: 6
Aztec, NW STUIO	Project #: OSAIDB GOSS	8009	Tel 50	505-345-3975	10	Fax 505	505-345-4107	107	/2/2
Phone #:			SUBMIT AND		Inal		Request		020
email or Fax#: XSXxmmes @ ensolum.com Project Manager		.Vs.mmore			₽C		(1	•	6:26
QA/QC Package:		9.00	NRC	SV)S '‡		uəsc		5:48
☐ Standard ☐ Level 4 (Full Validation)			1/0	VIS	ЪO		JA\Ji		AM
Accreditation: Az Compliance	Sampler: Directo	illa	ЯQ		O ⁵ '		uəs		
	On Ice: 🔯 🗀 1	- 1	/ O			(A		5	
□ EDD (Type)	# of Coolers: [(-6.7)	ЯĐ)					á	
	Cooler Temp(including cF):	(.4.	2D(×0	
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Date Time Matrix Sample Name	#	1406463	НЧТ					5	
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10/4/01/350 S SP-2	1402 Jal 6001	200-	メメ					X	
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Date: Relinquished by:	Received by: Via:	7-			tax tox)	15321	200	Page
47/10/1752 MINUST	TO Course	001 plaja D						The second secon	45 of
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other accredited laborator	ries. This serves as notice of this	possibility. Any sub-	contracted	ata will be c	learly nota	ted on th	ne analytical report.	123



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 24, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603

FAX

RE: Bruington GC C B OrderNo.: 1906B29

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/21/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-1

 Project:
 Bruington GC C B
 Collection Date: 6/20/2019 11:00:00 AM

 Lab ID:
 1906B29-001
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 20 6/21/2019 11:32:22 AM 45735 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.7 mg/Kg 6/21/2019 11:36:09 AM 45729 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 6/21/2019 11:36:09 AM 45729 Surr: DNOP 97.7 6/21/2019 11:36:09 AM 45729 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND Gasoline Range Organics (GRO) 6/21/2019 9:55:47 AM 45717 4.7 mg/Kg Surr: BFB 103 73.8-119 %Rec 6/21/2019 9:55:47 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 6/21/2019 9:55:47 AM Benzene 0.023 mg/Kg 45717 Toluene ND 0.047 mg/Kg 6/21/2019 9:55:47 AM 45717 Ethylbenzene ND 0.047 mg/Kg 1 6/21/2019 9:55:47 AM 45717 Xylenes, Total ND 0.094 mg/Kg 6/21/2019 9:55:47 AM 45717 Surr: 4-Bromofluorobenzene 104 80-120 %Rec 6/21/2019 9:55:47 AM 45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-2

Project: Bruington GC C B
 Collection Date: 6/20/2019 11:05:00 AM

 Lab ID: 1906B29-002
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 11:57:12 AM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/21/2019 11:58:08 AM	45729
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/21/2019 11:58:08 AM	45729
Surr: DNOP	98.4	70-130	%Rec	1	6/21/2019 11:58:08 AM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	6/21/2019 10:18:26 AM	45717
Surr: BFB	103	73.8-119	%Rec	1	6/21/2019 10:18:26 AM	45717
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	6/21/2019 10:18:26 AM	45717
Toluene	ND	0.043	mg/Kg	1	6/21/2019 10:18:26 AM	45717
Ethylbenzene	ND	0.043	mg/Kg	1	6/21/2019 10:18:26 AM	45717
Xylenes, Total	ND	0.086	mg/Kg	1	6/21/2019 10:18:26 AM	45717
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	6/21/2019 10:18:26 AM	45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-3

Project: Bruington GC C B
 Collection Date: 6/20/2019 11:10:00 AM

 Lab ID: 1906B29-003
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 12:34:26 PM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/21/2019 12:20:12 PM	45729
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/21/2019 12:20:12 PM	45729
Surr: DNOP	86.8	70-130	%Rec	1	6/21/2019 12:20:12 PM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/21/2019 10:41:19 AM	45717
Surr: BFB	100	73.8-119	%Rec	1	6/21/2019 10:41:19 AM	45717
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/21/2019 10:41:19 AM	45717
Toluene	ND	0.049	mg/Kg	1	6/21/2019 10:41:19 AM	45717
Ethylbenzene	ND	0.049	mg/Kg	1	6/21/2019 10:41:19 AM	45717
Xylenes, Total	0.12	0.098	mg/Kg	1	6/21/2019 10:41:19 AM	45717
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	6/21/2019 10:41:19 AM	45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-4

Project: Bruington GC C B
 Collection Date: 6/20/2019 11:15:00 AM

 Lab ID: 1906B29-004
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 12:46:51 PM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/21/2019 12:42:03 PM	45729
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/21/2019 12:42:03 PM	45729
Surr: DNOP	91.2	70-130	%Rec	1	6/21/2019 12:42:03 PM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	6/21/2019 11:03:58 AM	45717
Surr: BFB	97.8	73.8-119	%Rec	1	6/21/2019 11:03:58 AM	45717
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.020	mg/Kg	1	6/21/2019 11:03:58 AM	45717
Toluene	ND	0.040	mg/Kg	1	6/21/2019 11:03:58 AM	45717
Ethylbenzene	ND	0.040	mg/Kg	1	6/21/2019 11:03:58 AM	45717
Xylenes, Total	ND	0.081	mg/Kg	1	6/21/2019 11:03:58 AM	45717
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	6/21/2019 11:03:58 AM	45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-5

Project: Bruington GC C B
 Collection Date: 6/20/2019 11:20:00 AM

 Lab ID: 1906B29-005
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 12:59:16 PM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/21/2019 1:04:05 PM	45729
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/21/2019 1:04:05 PM	45729
Surr: DNOP	88.9	70-130	%Rec	1	6/21/2019 1:04:05 PM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/21/2019 11:26:38 AM	45717
Surr: BFB	104	73.8-119	%Rec	1	6/21/2019 11:26:38 AM	45717
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/21/2019 11:26:38 AM	45717
Toluene	ND	0.038	mg/Kg	1	6/21/2019 11:26:38 AM	45717
Ethylbenzene	ND	0.038	mg/Kg	1	6/21/2019 11:26:38 AM	45717
Xylenes, Total	ND	0.076	mg/Kg	1	6/21/2019 11:26:38 AM	45717
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	6/21/2019 11:26:38 AM	45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: ENSOLUM

Analytical ReportLab Order **1906B29**

Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: C-6

Project: Bruington GC C B **Collection Date:** 6/20/2019 11:25:00 AM

Lab ID: 1906B29-006 **Matrix:** MEOH (SOIL) **Received Date:** 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 1:11:40 PM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/21/2019 1:26:03 PM	45729
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/21/2019 1:26:03 PM	45729
Surr: DNOP	93.5	70-130	%Rec	1	6/21/2019 1:26:03 PM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	6/21/2019 11:49:13 AM	45717
Surr: BFB	101	73.8-119	%Rec	1	6/21/2019 11:49:13 AM	45717
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	6/21/2019 11:49:13 AM	45717
Toluene	ND	0.045	mg/Kg	1	6/21/2019 11:49:13 AM	45717
Ethylbenzene	ND	0.045	mg/Kg	1	6/21/2019 11:49:13 AM	45717
Xylenes, Total	ND	0.089	mg/Kg	1	6/21/2019 11:49:13 AM	45717
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	6/21/2019 11:49:13 AM	45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-7

 Project:
 Bruington GC C B
 Collection Date: 6/20/2019 11:30:00 AM

 Lab ID:
 1906B29-007
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 6/21/2019 1:24:05 PM 45735 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.3 mg/Kg 6/21/2019 1:48:11 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 6/21/2019 1:48:11 PM 45729 Surr: DNOP 94.0 70-130 %Rec 6/21/2019 1:48:11 PM 45729 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND 6/21/2019 12:11:57 PM 45717 Gasoline Range Organics (GRO) 4.9 mg/Kg Surr: BFB 103 73.8-119 %Rec 6/21/2019 12:11:57 PM 45717 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 6/21/2019 12:11:57 PM 45717 Benzene 0.024 mg/Kg Toluene ND 0.049 mg/Kg 6/21/2019 12:11:57 PM 45717 Ethylbenzene ND 0.049 mg/Kg 6/21/2019 12:11:57 PM 45717 Xylenes, Total ND 0.098 mg/Kg 6/21/2019 12:11:57 PM 45717 Surr: 4-Bromofluorobenzene 6/21/2019 12:11:57 PM 45717 99.1 80-120 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-8

 Project:
 Bruington GC C B
 Collection Date: 6/20/2019 11:35:00 AM

 Lab ID:
 1906B29-008
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 6/21/2019 1:36:30 PM 45735 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.9 mg/Kg 6/21/2019 2:10:08 PM Motor Oil Range Organics (MRO) ND 6/21/2019 2:10:08 PM 49 mg/Kg 1 45729 Surr: DNOP 91.2 6/21/2019 2:10:08 PM 70-130 %Rec 45729 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 6/21/2019 12:34:39 PM 45717 Gasoline Range Organics (GRO) ND 4.2 mg/Kg Surr: BFB 99.8 73.8-119 %Rec 6/21/2019 12:34:39 PM 45717 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.021 6/21/2019 12:34:39 PM 45717 Benzene mg/Kg Toluene ND 0.042 mg/Kg 6/21/2019 12:34:39 PM 45717 Ethylbenzene ND 0.042 mg/Kg 6/21/2019 12:34:39 PM 45717 Xylenes, Total ND 0.083 mg/Kg 6/21/2019 12:34:39 PM 45717 Surr: 4-Bromofluorobenzene 96.3 80-120 %Rec 6/21/2019 12:34:39 PM 45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-9

 Project:
 Bruington GC C B
 Collection Date: 6/20/2019 11:40:00 AM

 Lab ID:
 1906B29-009
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 1:48:54 PM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/21/2019 2:32:13 PM	45729
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/21/2019 2:32:13 PM	45729
Surr: DNOP	89.0	70-130	%Rec	1	6/21/2019 2:32:13 PM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	6/21/2019 12:57:21 PM	45717
Surr: BFB	98.8	73.8-119	%Rec	1	6/21/2019 12:57:21 PM	45717
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	6/21/2019 12:57:21 PM	45717
Toluene	ND	0.044	mg/Kg	1	6/21/2019 12:57:21 PM	45717
Ethylbenzene	ND	0.044	mg/Kg	1	6/21/2019 12:57:21 PM	45717
Xylenes, Total	ND	0.088	mg/Kg	1	6/21/2019 12:57:21 PM	45717
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	6/21/2019 12:57:21 PM	45717

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-10

 Project:
 Bruington GC C B
 Collection Date: 6/20/2019 11:45:00 AM

 Lab ID:
 1906B29-010
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 6/21/2019 2:01:19 PM 45735 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 10 mg/Kg 6/21/2019 2:54:19 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 6/21/2019 2:54:19 PM 45729 Surr: DNOP 91.7 70-130 %Rec 6/21/2019 2:54:19 PM 45729 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 6/21/2019 9:38:32 AM G60833 5.6 mg/Kg Surr: BFB 90.8 73.8-119 %Rec 6/21/2019 9:38:32 AM G60833 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 6/21/2019 9:38:32 AM B60833 Benzene 0.028 mg/Kg Toluene ND 0.056 mg/Kg 6/21/2019 9:38:32 AM B60833 Ethylbenzene ND 0.056 mg/Kg 1 6/21/2019 9:38:32 AM B60833 Xylenes, Total ND 0.11 mg/Kg 6/21/2019 9:38:32 AM B60833 Surr: 4-Bromofluorobenzene B60833 97.5 80-120 %Rec 6/21/2019 9:38:32 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-11

Project: Bruington GC C B
 Collection Date: 6/20/2019 11:50:00 AM

 Lab ID: 1906B29-011
 Matrix: MEOH (SOIL)
 Received Date: 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/21/2019 2:13:43 PM	45735
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/21/2019 3:16:35 PM	45729
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/21/2019 3:16:35 PM	45729
Surr: DNOP	90.9	70-130	%Rec	1	6/21/2019 3:16:35 PM	45729
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	6/21/2019 10:01:56 AM	G60833
Surr: BFB	88.1	73.8-119	%Rec	1	6/21/2019 10:01:56 AM	G60833
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	6/21/2019 10:01:56 AM	B60833
Toluene	ND	0.041	mg/Kg	1	6/21/2019 10:01:56 AM	B60833
Ethylbenzene	ND	0.041	mg/Kg	1	6/21/2019 10:01:56 AM	B60833
Xylenes, Total	ND	0.082	mg/Kg	1	6/21/2019 10:01:56 AM	B60833
Surr: 4-Bromofluorobenzene	93.8	80-120	%Rec	1	6/21/2019 10:01:56 AM	B60833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B29 24-Jun-19**

Client: ENSOLUM

Project: Bruington GC C B

Sample ID: MB-45735 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45735 RunNo: 60840

Prep Date: 6/21/2019 Analysis Date: 6/21/2019 SeqNo: 2059612 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B29**

24-Jun-19

Client: ENSOLUM

Project: Bruington GC C B

Sample ID: LCS-45731 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 45731 RunNo: 60825

Prep Date: 6/21/2019 Analysis Date: 6/21/2019 SeqNo: 2058925 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 4.7
 5.000
 94.9
 70
 130

Sample ID: MB-45731 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **45731** RunNo: **60825**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 9.8
 10.00
 98.0
 70
 130

Sample ID: MB-45729 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 45729 RunNo: 60825

Prep Date: 6/21/2019 Analysis Date: 6/21/2019 SeqNo: 2058927 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.7 10.00 96.6 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B29 24-Jun-19**

Client: ENSOLUM
Project: Bruington GC C B

Sample ID: MB-45717 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 45717 RunNo: 60835

Prep Date: 6/20/2019 Analysis Date: 6/21/2019 SeqNo: 2059732 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 73.8 119

Sample ID: LCS-45717 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 45717 RunNo: 60835

Prep Date: 6/20/2019 Analysis Date: 6/21/2019 SeqNo: 2059733 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 91.9 80.1 123

Surr: BFB 1100 1000 115 73.8 119

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G60833 RunNo: 60833

Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059761 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 95.4 73.8 119

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G60833 RunNo: 60833

Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059762 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 21 5.0 25.00 84.2 80.1 123

Surr: BFB 1300 1000 127 73.8 119 S

Sample ID: 1906B29-010AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **C-10** Batch ID: **G60833** RunNo: **60833**

Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059763 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.6 0 27.81 92.6 69.1 142 Surr: BFB 1200 1112 112 73.8 119

Sample ID: 1906B29-010AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: C-10 Batch ID: G60833 RunNo: 60833

Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059764 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B29**

Qual

24-Jun-19

Client: ENSOLUM

Project: Bruington GC C B

Sample ID: 1906B29-010AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **C-10** Batch ID: **G60833** RunNo: **60833**

Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059764 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 27.81 0 69.1 0.345 20 26 5.6 93.0 142 119 Surr: BFB 1200 1112 109 73.8 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1906B29 24-Jun-19

Client: ENSOLUM Project: Bruington GC C B

Sample ID: MB-45717 SampType: MBLK TestCode: EPA Method 8021B: Volatiles RunNo: 60835 Client ID: PBS Batch ID: 45717 Prep Date: 6/20/2019 Analysis Date: 6/21/2019 SeqNo: 2059754 Units: mg/Kg PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual Benzene ND 0.025 ND 0.050 0.050 ND

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: LCS-45717 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 45717 RunNo: 60835 Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059755 6/20/2019 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 O 96.6 0.97 80 120 Benzene Toluene 0.97 0.050 1.000 0 97.0 80 120 0.050 0 97.1 80 Ethylbenzene 0.97 1.000 120 2.9 0.10 0 95.9 80 120 Xylenes, Total 3.000 Surr: 4-Bromofluorobenzene 1.1 1.000 107 80 120

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **B60833** RunNo: 60833 Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059769 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.000 102 120 1.0 80

Sample ID: 100NG BTEX LCS	SampT	ype: LC	S	Tes	8021B: Volat	iles						
Client ID: LCSS	Batch	1D: B6	0833									
Prep Date:	Analysis Date: 6/21/2019 SeqNo: 2059770						Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.94	0.025	1.000	0	93.7	80	120					
Toluene	0.97	0.050	1.000	0	97.5	80	120					
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120					
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120					
Surr: 4-Bromofluorobenzene	1.2		1.000		124	80	120			S		

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2.5

0.82

0.082

2.465

0.8217

WO#: **1906B29**

24-Jun-19

Client: ENSOLUM

Project: Bruington GC C B

Sample ID: 1906B29-011AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **C-11** Batch ID: **B60833** RunNo: **60833**

Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059771 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene 0.82 0.021 0.8217 0 100 63.9 127 Toluene 0.86 0.041 0.8217 0 104 69.9 131 0.041 0 106 71 Ethylbenzene 0.87 0.8217 132 Xylenes, Total 2.6 0.082 2.465 0 106 71.8 131 Surr: 4-Bromofluorobenzene 0.82 0.8217 99.8 80 120

Sample ID: 1906B29-011AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: C-11 Batch ID: **B60833** RunNo: 60833 Units: mg/Kg Prep Date: Analysis Date: 6/21/2019 SeqNo: 2059772 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.80 0.021 0.8217 0 96.8 63.9 127 3.63 20 Benzene Toluene 0.83 0.041 0.8217 0 101 69.9 131 2.83 20 0.041 0 102 71 132 3.57 20 Ethylbenzene 0.84 0.8217

0

102

99.2

71.8

80

131

120

3.38

0

20

0

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	ENSOLUM AZ	TEC	Work Orde	r Number:	1906B29		RcptNo	: 1
Received By:	Anne Thorne	•	6/21/2019 8:	18:00 AM		ann M. Michael C	-	
Completed By:	Michelle Gar	cia	6/21/2019 8:	23:32 AM		Michael C	prue	
Reviewed By:	As 0	6/2119						
Chain of Cu	stody							
1. Is Chain of 0	Custody complete	?			Yes 🗹	No 🗌	Not Present	
2. How was the	e sample delivere	d?			Courier			
Log In 3. Was an atte	mpt made to cool	the samples?			Yes 🗹	No 🗌	NA 🗌	
4. Were all sam	nples received at	a temperature d	of >0° C to 6.0	°C	Yes 🔽	No 🗌	na 🗆	
5. Sample(s) ir	proper container	-(s)?			Yes 🗹	No 🗌		
-	nple volume for i	` .		·	Yes 🔽	No 🗌		
7. Are samples	(except VOA and	I ONG) properly	preserved?		Yes 🗹	No 📙		
8. Was preserv	ative added to bo	ttles?		٠	Yes	No 🗹	NA L	
9. VOA vials ha	ve zero headspa	ce?			Yes 🗌	No 🗌	No VOA Vials 🗹	70
10. Were any sa	imple containers	received broker	1?		Yes 🗆	No 🗹	# of preserved bottles checked	6/2//1
11. Does paperw (Note discrep	ork match bottle pancies on chain				Yes 🗸	No 🗆	for pH: (<2 o	r >12 unless noted)-
12. Are matrices			Custody?		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear who					Yes ✓ Yes ✓	No ∐ No □	Checked by:	
	customer for auth				103 🖭			
Special Hand	ling (if applic	able)				·		
15. Was client n	otified of all discr	epancies with the	his order?		Yes \square	No 🗆	NA 🗹	_
Persor	n Notified:		Nonmar-raw-	Date:				
By Wh	Page 2000	**************************************		Via:	eMail	Phone Fax	In Person	
Regard Client	ling: Instructions:	A A A A A A A A A A A A A A A A A A A				-		
16. Additional re	*	***************************************	· · · · · · · · · · · · · · · · · · ·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
17. Cooler Info								
		Condition Se	al Intact Sea	i No S	eal Date	Signed By		
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2	1.0 G	ood Yes	-	1		İ	1	

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1906D11

June 27, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603

FAX:

RE: Bruington GC C1B

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/25/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-12

Project: Bruington GC C1B
 Collection Date: 6/24/2019 9:00:00 AM

 Lab ID: 1906D11-001
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/25/2019 2:33:57 PM	45798
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst:	TOM
Diesel Range Organics (DRO)	9.7	9.4	mg/Kg	1	6/25/2019 10:38:15 AM	45792
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/25/2019 10:38:15 AM	45792
Surr: DNOP	91.9	70-130	%Rec	1	6/25/2019 10:38:15 AM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/25/2019 10:32:04 AM	G60921
Surr: BFB	100	73.8-119	%Rec	1	6/25/2019 10:32:04 AM	G60921
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	6/25/2019 10:32:04 AM	B60921
Toluene	ND	0.049	mg/Kg	1	6/25/2019 10:32:04 AM	B60921
Ethylbenzene	ND	0.049	mg/Kg	1	6/25/2019 10:32:04 AM	B60921
Xylenes, Total	ND	0.098	mg/Kg	1	6/25/2019 10:32:04 AM	B60921
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	6/25/2019 10:32:04 AM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 17

CLIENT: ENSOLUM

Analytical Report Lab Order 1906D11

Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: C-13

Collection Date: 6/24/2019 9:05:00 AM **Project:** Bruington GC C1B

1906D11-002 Lab ID: Matrix: MEOH (SOIL) Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/25/2019 2:46:21 PM	45798
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/25/2019 11:02:08 AM	45792
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/25/2019 11:02:08 AM	45792
Surr: DNOP	94.0	70-130	%Rec	1	6/25/2019 11:02:08 AM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/25/2019 10:54:36 AM	G60921
Surr: BFB	99.8	73.8-119	%Rec	1	6/25/2019 10:54:36 AM	G60921
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	6/25/2019 10:54:36 AM	B60921
Toluene	ND	0.049	mg/Kg	1	6/25/2019 10:54:36 AM	B60921
Ethylbenzene	ND	0.049	mg/Kg	1	6/25/2019 10:54:36 AM	B60921
Xylenes, Total	ND	0.098	mg/Kg	1	6/25/2019 10:54:36 AM	B60921
Surr: 4-Bromofluorobenzene	95.9	80-120	%Rec	1	6/25/2019 10:54:36 AM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-14

Project: Bruington GC C1B
 Collection Date: 6/24/2019 9:10:00 AM

 Lab ID: 1906D11-003
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	6/25/2019 2:58:46 PM	45798
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/25/2019 11:26:07 AM	45792
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/25/2019 11:26:07 AM	45792
Surr: DNOP	95.3	70-130	%Rec	1	6/25/2019 11:26:07 AM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/25/2019 11:17:19 AM	G60921
Surr: BFB	102	73.8-119	%Rec	1	6/25/2019 11:17:19 AM	G60921
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	6/25/2019 11:17:19 AM	B60921
Toluene	ND	0.047	mg/Kg	1	6/25/2019 11:17:19 AM	B60921
Ethylbenzene	ND	0.047	mg/Kg	1	6/25/2019 11:17:19 AM	B60921
Xylenes, Total	ND	0.093	mg/Kg	1	6/25/2019 11:17:19 AM	B60921
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	6/25/2019 11:17:19 AM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-15

 Project:
 Bruington GC C1B
 Collection Date: 6/24/2019 9:15:00 AM

 Lab ID:
 1906D11-004
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 6/25/2019 3:11:11 PM 45798 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.9 mg/Kg 6/25/2019 11:50:08 AM 45792 ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 6/25/2019 11:50:08 AM 45792 Surr: DNOP 95.0 6/25/2019 11:50:08 AM 45792 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 6/25/2019 11:40:06 AM G60921 Gasoline Range Organics (GRO) ND 4.5 mg/Kg Surr: BFB 101 73.8-119 %Rec 6/25/2019 11:40:06 AM G60921 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND mg/Kg 6/25/2019 11:40:06 AM B60921 Benzene 0.023 Toluene ND 0.045 mg/Kg 6/25/2019 11:40:06 AM B60921 Ethylbenzene ND 0.045 mg/Kg 6/25/2019 11:40:06 AM B60921 Xylenes, Total ND 0.090 mg/Kg 6/25/2019 11:40:06 AM B60921 Surr: 4-Bromofluorobenzene 6/25/2019 11:40:06 AM B60921 97.2 80-120 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-16

 Project:
 Bruington GC C1B
 Collection Date: 6/24/2019 9:20:00 AM

 Lab ID:
 1906D11-005
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 6/25/2019 3:23:35 PM 45798 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.5 mg/Kg 6/25/2019 12:14:13 PM 45792 ND Motor Oil Range Organics (MRO) 47 mg/Kg 1 6/25/2019 12:14:13 PM 45792 Surr: DNOP 91.7 6/25/2019 12:14:13 PM 45792 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 6/25/2019 12:02:51 PM G60921 Gasoline Range Organics (GRO) ND 4.8 mg/Kg Surr: BFB 101 73.8-119 %Rec 6/25/2019 12:02:51 PM G60921 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND mg/Kg 6/25/2019 12:02:51 PM B60921 Benzene 0.024 Toluene ND 0.048 mg/Kg 6/25/2019 12:02:51 PM B60921 Ethylbenzene ND 0.048 mg/Kg 6/25/2019 12:02:51 PM B60921 Xylenes, Total ND 0.096 mg/Kg 6/25/2019 12:02:51 PM B60921 Surr: 4-Bromofluorobenzene 6/25/2019 12:02:51 PM B60921 95.2 80-120 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-17

Project: Bruington GC C1B
 Collection Date: 6/24/2019 9:25:00 AM

 Lab ID: 1906D11-006
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/25/2019 3:36:00 PM	45798
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	том
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/25/2019 12:38:20 PM	45792
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/25/2019 12:38:20 PM	45792
Surr: DNOP	94.7	70-130	%Rec	1	6/25/2019 12:38:20 PM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	6/25/2019 12:25:32 PM	G60921
Surr: BFB	101	73.8-119	%Rec	1	6/25/2019 12:25:32 PM	G60921
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	6/25/2019 12:25:32 PM	B60921
Toluene	ND	0.045	mg/Kg	1	6/25/2019 12:25:32 PM	B60921
Ethylbenzene	ND	0.045	mg/Kg	1	6/25/2019 12:25:32 PM	B60921
Xylenes, Total	ND	0.091	mg/Kg	1	6/25/2019 12:25:32 PM	B60921
Surr: 4-Bromofluorobenzene	97.1	80-120	%Rec	1	6/25/2019 12:25:32 PM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-18

Project: Bruington GC C1B
 Collection Date: 6/24/2019 9:30:00 AM

 Lab ID: 1906D11-007
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/25/2019 3:48:25 PM	45798
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/25/2019 1:02:30 PM	45792
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/25/2019 1:02:30 PM	45792
Surr: DNOP	94.0	70-130	%Rec	1	6/25/2019 1:02:30 PM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	6/25/2019 12:48:12 PM	G60921
Surr: BFB	100	73.8-119	%Rec	1	6/25/2019 12:48:12 PM	G60921
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	6/25/2019 12:48:12 PM	B60921
Toluene	ND	0.044	mg/Kg	1	6/25/2019 12:48:12 PM	B60921
Ethylbenzene	ND	0.044	mg/Kg	1	6/25/2019 12:48:12 PM	B60921
Xylenes, Total	ND	0.087	mg/Kg	1	6/25/2019 12:48:12 PM	B60921
Surr: 4-Bromofluorobenzene	95.1	80-120	%Rec	1	6/25/2019 12:48:12 PM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: ENSOLUM

Analytical ReportLab Order **1906D11**

Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: C-19

Project: Bruington GC C1B Collection Date: 6/24/2019 9:35:00 AM

Lab ID: 1906D11-008 **Matrix:** MEOH (SOIL) **Received Date:** 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/25/2019 4:25:37 PM	45798
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/25/2019 1:26:44 PM	45792
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/25/2019 1:26:44 PM	45792
Surr: DNOP	92.6	70-130	%Rec	1	6/25/2019 1:26:44 PM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/25/2019 1:10:54 PM	G60921
Surr: BFB	94.9	73.8-119	%Rec	1	6/25/2019 1:10:54 PM	G60921
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	6/25/2019 1:10:54 PM	B60921
Toluene	ND	0.047	mg/Kg	1	6/25/2019 1:10:54 PM	B60921
Ethylbenzene	ND	0.047	mg/Kg	1	6/25/2019 1:10:54 PM	B60921
Xylenes, Total	ND	0.094	mg/Kg	1	6/25/2019 1:10:54 PM	B60921
Surr: 4-Bromofluorobenzene	84.8	80-120	%Rec	1	6/25/2019 1:10:54 PM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 17

Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-20

Project: Bruington GC C1B
 Collection Date: 6/24/2019 9:40:00 AM

 Lab ID: 1906D11-009
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	60	mg/Kg	20	6/25/2019 1:23:19 PM	45802
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/25/2019 1:51:01 PM	45792
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/25/2019 1:51:01 PM	45792
Surr: DNOP	95.1	70-130	%Rec	1	6/25/2019 1:51:01 PM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	6/25/2019 1:33:32 PM	G60921
Surr: BFB	100	73.8-119	%Rec	1	6/25/2019 1:33:32 PM	G60921
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	6/25/2019 1:33:32 PM	B60921
Toluene	ND	0.041	mg/Kg	1	6/25/2019 1:33:32 PM	B60921
Ethylbenzene	ND	0.041	mg/Kg	1	6/25/2019 1:33:32 PM	B60921
Xylenes, Total	ND	0.083	mg/Kg	1	6/25/2019 1:33:32 PM	B60921
Surr: 4-Bromofluorobenzene	94.2	80-120	%Rec	1	6/25/2019 1:33:32 PM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-21

 Project:
 Bruington GC C1B
 Collection Date: 6/24/2019 9:45:00 AM

 Lab ID:
 1906D11-010
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	59	mg/Kg	20	6/25/2019 1:35:44 PM	45802
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/25/2019 2:15:19 PM	45792
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/25/2019 2:15:19 PM	45792
Surr: DNOP	96.8	70-130	%Rec	1	6/25/2019 2:15:19 PM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/25/2019 1:56:18 PM	G60921
Surr: BFB	98.8	73.8-119	%Rec	1	6/25/2019 1:56:18 PM	G60921
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	6/25/2019 1:56:18 PM	B60921
Toluene	ND	0.038	mg/Kg	1	6/25/2019 1:56:18 PM	B60921
Ethylbenzene	ND	0.038	mg/Kg	1	6/25/2019 1:56:18 PM	B60921
Xylenes, Total	ND	0.077	mg/Kg	1	6/25/2019 1:56:18 PM	B60921
Surr: 4-Bromofluorobenzene	93.5	80-120	%Rec	1	6/25/2019 1:56:18 PM	B60921

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/27/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-22

Project: Bruington GC C1B
 Collection Date: 6/24/2019 9:50:00 AM

 Lab ID: 1906D11-011
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	smb
Chloride	ND	60	mg/Kg	20	6/25/2019 1:48:08 PM	45802
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/25/2019 12:05:12 PM	45792
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/25/2019 12:05:12 PM	45792
Surr: DNOP	82.0	70-130	%Rec	1	6/25/2019 12:05:12 PM	45792
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	6/25/2019 2:19:00 PM	G60921
Surr: BFB	102	73.8-119	%Rec	1	6/25/2019 2:19:00 PM	G60921
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst:	DJF
Benzene	ND	0.021	mg/Kg	1	6/25/2019 10:42:51 AM	45770
Toluene	ND	0.041	mg/Kg	1	6/25/2019 10:42:51 AM	45770
Ethylbenzene	ND	0.041	mg/Kg	1	6/25/2019 10:42:51 AM	45770
Xylenes, Total	ND	0.082	mg/Kg	1	6/25/2019 10:42:51 AM	45770
Surr: 1,2-Dichloroethane-d4	91.8	70-130	%Rec	1	6/25/2019 10:42:51 AM	45770
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	6/25/2019 10:42:51 AM	45770
Surr: Dibromofluoromethane	79.8	70-130	%Rec	1	6/25/2019 10:42:51 AM	45770
Surr: Toluene-d8	92.1	70-130	%Rec	1	6/25/2019 10:42:51 AM	45770

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Result

Result

27-Jun-19

1906D11

WO#:

Client:

ENSOLUM

Project:

Bruington GC C1B

Sample ID: MB-45798

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

RunNo: 60944

Prep Date: 6/25/2019

Batch ID: 45798 Analysis Date: 6/25/2019 PQL

SeqNo: 2063167

%REC LowLimit

Units: mq/Kq

HighLimit

RPDLimit Qual

Analyte Chloride

ND 1.5

Sample ID: LCS-45798

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 45798

RunNo: 60944

SeqNo: 2063168

Units: mg/Kg

Analyte Chloride

Prep Date: 6/25/2019 Analysis Date: 6/25/2019

PQL

1.5

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

LowLimit 93.9

HighLimit 110

RPDLimit

Qual

Sample ID: MB-45802

Client ID: PBS

SampType: MBLK Batch ID: 45802 TestCode: EPA Method 300.0: Anions RunNo: 60917

Sample ID: LCS-45802

Client ID: LCSS

Prep Date: 6/25/2019

Analysis Date: 6/25/2019

SeqNo: 2063373

Units: mg/Kg HighLimit

%RPD

%RPD

Analyte Chloride

Result PQL ND 1.5

15.00

SPK value SPK Ref Val

%RPD **RPDLimit** Qual

Qual

SampType: LCS Batch ID: 45802

PQL

1.5

%REC

RunNo: 60917

%RPD

Analyte

Prep Date: 6/25/2019 Analysis Date: 6/25/2019

SeqNo: 2063374

TestCode: EPA Method 300.0: Anions

LowLimit

Units: mg/Kg HighLimit

110

RPDLimit

Chloride

Result 14 SPK value SPK Ref Val

15.00

n

94.7

90

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

: 1906D11 27-Jun-19

WO#:

Client:

ENSOLUM

Project:

Sample ID: MB-45792

Bruington GC C1B

Sample ID: LCS-45792	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 45 7	792	F	RunNo: 6	0884				
Prep Date: 6/25/2019	Analysis D	ate: 6/ 2	25/2019	S	SeqNo: 2	061792	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	63.9	124			
Surr: DNOP	5.0		5.000		99.7	70	130			

'	•	,,								
Client ID: PBS	Batch	n ID: 45	792	F	RunNo: 60	0884				
Prep Date: 6/25/2019	Analysis D	ate: 6/	25/2019	S	SeqNo: 20	061793	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.8	70	130			

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID: 1906D11-001AMS	SampT	mpType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: C-12	Batch	ID: 45 7	792	R	tunNo: 60	0878				
Prep Date: 6/25/2019	Analysis D	ate: 6/ 2	25/2019	S	SeqNo: 20	062526	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	76	9.6	48.08	9.660	137	57	142			
Surr: DNOP	4.6		4.808		95.8	70	130			

Sample ID: 1906D11-001AMSI	SampT	ype: MS	SD .	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: C-12	Batch	ID: 45 7	792	R	unNo: 60	0878				
Prep Date: 6/25/2019	Analysis D	ate: 6/ 2	25/2019	S	eqNo: 20	062527	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.6	47.98	9.660	58.2	57	142	67.3	20	R
Surr: DNOP	4.8		4.798		101	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906D11 27-Jun-19**

Client: ENSOLUM
Project: Bruington GC C1B

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G60921 RunNo: 60921

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062601 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 107 73.8 119

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G60921 RunNo: 60921

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062602 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 97.5 80.1 123

Surr: BFB 1100 1000 114 73.8 119

Sample ID: 1906D11-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: C-12 Batch ID: G60921 RunNo: 60921

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062603 Units: mg/Kg

Result HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.53 0 97.8 69.1 142 Surr: BFB 981.4 1100 114 73.8 119

Sample ID: 1906D11-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: C-12 Batch ID: G60921 RunNo: 60921

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062604 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 97.7 0.0818 20 24.53 69.1 142 Surr: BFB 1100 981.4 112 73.8 119 0

Sample ID: MB-45770 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 45770 RunNo: 60921

Prep Date: 6/24/2019 Analysis Date: 6/25/2019 SeqNo: 2062605 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 102 73.8 119

Sample ID: LCS-45770 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 45770 RunNo: 60921

Prep Date: 6/24/2019 Analysis Date: 6/25/2019 SeqNo: 2062606 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 109 73.8 119

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1906D11

27-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

RunNo: 60921 Client ID: PBS Batch ID: **B60921**

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062632 Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual

Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: **B60921** RunNo: 60921

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062634 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.98 0.025 1.000 97.9 0 80 120 Benzene Toluene 0.95 0.050 1.000 0 94.7 80 120 0 92.1 80 Ethylbenzene 0.92 0.050 1.000 120 0 89.2 Xylenes, Total 2.7 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.97 1.000 96.9 80 120

Sample ID: 1906D11-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: C-13 Batch ID: **B60921** RunNo: 60921

Prep Date: Analysis Date: 6/25/2019 SeqNo: 2062635 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 0.9814 98.0 0.96 n 63.9 127 Benzene Toluene 0.96 0.049 0.9814 0.004553 97.7 69.9 131 Ethylbenzene 96.9 71 132 0.95 0.049 0.9814 0 Xylenes, Total 2.8 0.098 2.944 0 94.7 71.8 131 Surr: 4-Bromofluorobenzene 0.9814 1.0 102 80 120

Sample ID: 1906D11-002AMSD TestCode: EPA Method 8021B: Volatiles SampType: MSD

Client ID: C-13 Batch ID: **B60921** RunNo: 60921

Prep Date:	Analysis D	Date: 6/	25/2019	S	SeqNo: 20	062636	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9814	0	95.0	63.9	127	3.17	20	
Toluene	0.93	0.049	0.9814	0.004553	94.8	69.9	131	3.05	20	
Ethylbenzene	0.93	0.049	0.9814	0	94.8	71	132	2.21	20	
Xylenes, Total	2.7	0.098	2.944	0	92.3	71.8	131	2.60	20	
Surr: 4-Bromofluorobenzene	1.0		0.9814		102	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1906D11 27-Jun-19

Client:

ENSOLUM

Project:

Bruington GC C1B

Sample ID: MB-45770

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: 45770

RunNo: 60921

99.2

Prep Date: 6/24/2019

Analysis Date: 6/25/2019

SeqNo: 2062637 Units: %Rec

Analyte

80

TestCode: EPA Method 8021B: Volatiles

Surr: 4-Bromofluorobenzene

Result 0.99 SPK value SPK Ref Val

%REC LowLimit HighLimit 120

RPDLimit

Qual

Sample ID: LCS-45770

SampType: LCS Batch ID: 45770

RunNo: 60921

Client ID: LCSS Prep Date: 6/24/2019

Analysis Date: 6/25/2019

SeqNo: 2062638

Units: %Rec

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Result 1.0

1.000

1.000

%RPD

RPDLimit

Qual

Surr: 4-Bromofluorobenzene

103

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

0.45

WO#: **1906D11**

27-Jun-19

Client: ENSOLUM

Surr: Toluene-d8

Project: Bruington GC C1B

Sample ID: mb-45770	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: 45	770	F						
Prep Date: 6/24/2019	Prep Date: 6/24/2019 Analysis Date: 6/25/2019					062702	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.4	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		83.7	70	130			

90.6

70

130

Sample ID: Ics-45770	Samp1	Гуре: LC	S	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batc	h ID: 45	770	F	RunNo: 60919						
Prep Date: 6/24/2019	Analysis [nalysis Date: 6/25/2019 SeqNo: 2062703 Units: mg/Kg					(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	111	70	130				
Toluene	0.91	0.050	1.000	0	91.2	70	130				
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.7	70	130				
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.3	70	130				
Surr: Dibromofluoromethane	0.40		0.5000		79.2	70	130				
Surr: Toluene-d8	0.47		0.5000		93.6	70	130				

0.5000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Na	me: ENSOLU	M AZTEC	Work	Order Num	nber: 1906D1	1		RcptNo:	1
Received	By: Desiree	Dominguez	6/25/20	019 8:15:00	AM	T	3		
Complete	d By: Erin Me	lendrez	6/25/20	19 9:05:37	АМ	U	3 UA	-	
Reviewed	ву: ЕИМ		6/28	5/19					
Chain of	Custody								
1. Is Chai	n of Custody com	plete?			Yes 🗸] No		Not Present	
2. How wa	as the sample de	livered?			Courier				
Log In									
3. Was an	attempt made to	cool the sam	oles?		Yes 🗸) No		NA 🗌	
4. Were al	Il samples receive	ed at a tempera	ature of >0° C	to 6.0°C	Yes 🗸	No.		NA 🗆	
5. Sample	e(s) in proper conf	tainer(s)?			Yes 🗸	No.	· 🗆		
6. Sufficier	nt sample volume	for indicated t	est(s)?		Yes 🗸	No			
7. Are sam	ples (except VO	A and ONG) pi	operly preserve	ed?	Yes 🗸	No			
8. Was pre	eservative added	to bottles?			Yes	No	V	NA 🗆	
9. VOA via	ils have zero hea	dspace?			Yes 🗌	No		No VOA Vials 🗹	70
10. Were a	ny sample contai	ners received l	oroken?		Yes 🗌	No	V	# of preserved	125/19
11. Does pa	perwork match b	ottle labels?			Yes 🗸	No		bottles checked for pH:	6/05/
(Note di	screpancies on c	hain of custody	y)						>12 unless noted)
	rices correctly ide				Yes 🔽			Adjusted?	
	r what analyses		d?		Yes 🗸	No		200	
	I holding times ab otify customer for)		Yes 🗹	No		Checked by:	
Special H	andling (if ap	pplicable)							
15. Was cli	ent notified of all	discrepancies	with this order	?	Yes	No		NA 🗹	
P	erson Notified:			Date		******************	mountain.		
	y Whom:			Via:	eMail	☐ Phone ☐	Fax	☐ In Person	
	egarding:					SS - IR (+ A MERICAL IN HIS STORAGE PROPERTY CONTROL OF THE S	Mennanda	A STATE OF THE PROPERTY OF THE	
	lient Instructions:	1						STATE	
16. Additio	nal remarks:								
	Information	ered en department of the							
	ler No Temp %		Seal Intact	Seal No	Seal Date	Signed	Ву		
1 2	1.4 5.8	Good Good	Yes Yes						
	and the second second	1				1		1	

Received by OCD: 6/2/2020 6:	26:48 AM	Page 85 of 123
HALL ENVIRONMENTAI ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 845-3975 Fax 505-345-4107 Analysis Request	CI, F. Br., NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	R132/200 Long 43034 My cody Will be clearly notated on the analytical report.
HALL ANAL www.ha Hawkins NE 505-345-3975	PAHs by 8310 or 8270SIMS RCRA 8 Metals	Kry Tom # N
ANA ANA www.h 4901 Hawkins NE Tel. 505-345-397	8081 Pesticides/8082 PCB's EDB (Method 504.1)	Pary Pm A
49	A BTEX / MTBE / TMB's (8021)	Remarks:
Turn-Around Time: 160 % ☐ Standard ☑ Rush 6 35-1 % Project Name: 13 € € € € € € € Project #: 05 Å 13 > 6 0 5 %	Sumess SAfort, Yes	Time: Relinquished by: Received by: Via: Date Time Remarks: Pay K-7 R 13 2/200 Time: Relinquished by: Received by: Via: Date Time Remarks: Pay K-7 R 13 2/200 Received by: Via: Date Time R 13 2/200 Received by: Vi
Turn-Around Tim ☐ Standard Project Name: 3500.145	Sampler: C D Sampler: C D Sampler: C D On Ice: S D Sampler: C D Sampler: C D Sampler: C D Sampler:	Received by:
Chain-of-Custody Record Ensolum g Address: 666. Suth Rie ande 87410 ##:	ance mple Name C-/3 C-/3 C-/3 C-/4 C-/7 C-/3	inquished by: inquished by: Inquished by: Indicate to Hall Environmental may be subco
Hain-of-C		Relinquished by: Relinquished by: Resary, samples submitted
Client: Enso Wailing Address: Grank Phone #:	Stand of DD A Standard of DD A Stan	Date: Time: 24/14 36 36 34 (4 9)



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1906E84

June 28, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603

FAX

RE: Bruington GC C1B

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/27/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-23

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:00:00 AM

 Lab ID:
 1906E84-001
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 11:39:37 AM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/27/2019 10:00:29 AM	45859
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/27/2019 10:00:29 AM	45859
Surr: DNOP	88.1	70-130	%Rec	1	6/27/2019 10:00:29 AM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/27/2019 9:27:57 AM	G60991
Surr: BFB	88.0	73.8-119	%Rec	1	6/27/2019 9:27:57 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/27/2019 9:27:57 AM	B60991
Toluene	ND	0.039	mg/Kg	1	6/27/2019 9:27:57 AM	B60991
Ethylbenzene	ND	0.039	mg/Kg	1	6/27/2019 9:27:57 AM	B60991
Xylenes, Total	ND	0.078	mg/Kg	1	6/27/2019 9:27:57 AM	B60991
Surr: 4-Bromofluorobenzene	93.8	80-120	%Rec	1	6/27/2019 9:27:57 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-24

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:05:00 AM

 Lab ID:
 1906E84-002
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 11:52:02 AM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/27/2019 10:48:33 AM	45859
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/27/2019 10:48:33 AM	45859
Surr: DNOP	88.5	70-130	%Rec	1	6/27/2019 10:48:33 AM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/27/2019 9:51:18 AM	G60991
Surr: BFB	86.6	73.8-119	%Rec	1	6/27/2019 9:51:18 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/27/2019 9:51:18 AM	B60991
Toluene	ND	0.038	mg/Kg	1	6/27/2019 9:51:18 AM	B60991
Ethylbenzene	ND	0.038	mg/Kg	1	6/27/2019 9:51:18 AM	B60991
Xylenes, Total	ND	0.077	mg/Kg	1	6/27/2019 9:51:18 AM	B60991
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	6/27/2019 9:51:18 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/28/2019

CLIENT: ENSOLUM Client Sample ID: C-25

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:10:00 AM

 Lab ID:
 1906E84-003
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 12:04:26 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/27/2019 11:12:32 AM	45859
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/27/2019 11:12:32 AM	45859
Surr: DNOP	85.7	70-130	%Rec	1	6/27/2019 11:12:32 AM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	6/27/2019 10:14:38 AM	G60991
Surr: BFB	86.6	73.8-119	%Rec	1	6/27/2019 10:14:38 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	6/27/2019 10:14:38 AM	B60991
Toluene	ND	0.035	mg/Kg	1	6/27/2019 10:14:38 AM	B60991
Ethylbenzene	ND	0.035	mg/Kg	1	6/27/2019 10:14:38 AM	B60991
Xylenes, Total	ND	0.070	mg/Kg	1	6/27/2019 10:14:38 AM	B60991
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	1	6/27/2019 10:14:38 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-26

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:15:00 AM

 Lab ID:
 1906E84-004
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 12:16:51 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/27/2019 11:36:38 AM	45859
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/27/2019 11:36:38 AM	45859
Surr: DNOP	84.2	70-130	%Rec	1	6/27/2019 11:36:38 AM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	6/27/2019 10:38:03 AM	G60991
Surr: BFB	85.8	73.8-119	%Rec	1	6/27/2019 10:38:03 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/27/2019 10:38:03 AM	B60991
Toluene	ND	0.039	mg/Kg	1	6/27/2019 10:38:03 AM	B60991
Ethylbenzene	ND	0.039	mg/Kg	1	6/27/2019 10:38:03 AM	B60991
Xylenes, Total	ND	0.077	mg/Kg	1	6/27/2019 10:38:03 AM	B60991
Surr: 4-Bromofluorobenzene	92.5	80-120	%Rec	1	6/27/2019 10:38:03 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-27

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:20:00 AM

 Lab ID:
 1906E84-005
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 12:29:15 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/27/2019 12:00:45 PM	45859
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/27/2019 12:00:45 PM	45859
Surr: DNOP	88.2	70-130	%Rec	1	6/27/2019 12:00:45 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	6/27/2019 11:01:29 AM	G60991
Surr: BFB	85.0	73.8-119	%Rec	1	6/27/2019 11:01:29 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	6/27/2019 11:01:29 AM	B60991
Toluene	ND	0.043	mg/Kg	1	6/27/2019 11:01:29 AM	B60991
Ethylbenzene	ND	0.043	mg/Kg	1	6/27/2019 11:01:29 AM	B60991
Xylenes, Total	ND	0.085	mg/Kg	1	6/27/2019 11:01:29 AM	B60991
Surr: 4-Bromofluorobenzene	90.5	80-120	%Rec	1	6/27/2019 11:01:29 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-28

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:25:00 AM

 Lab ID:
 1906E84-006
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 12:41:39 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/27/2019 12:24:55 PM	45859
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/27/2019 12:24:55 PM	45859
Surr: DNOP	86.3	70-130	%Rec	1	6/27/2019 12:24:55 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	6/27/2019 11:24:53 AM	G60991
Surr: BFB	84.6	73.8-119	%Rec	1	6/27/2019 11:24:53 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	6/27/2019 11:24:53 AM	B60991
Toluene	ND	0.038	mg/Kg	1	6/27/2019 11:24:53 AM	B60991
Ethylbenzene	ND	0.038	mg/Kg	1	6/27/2019 11:24:53 AM	B60991
Xylenes, Total	ND	0.076	mg/Kg	1	6/27/2019 11:24:53 AM	B60991
Surr: 4-Bromofluorobenzene	91.0	80-120	%Rec	1	6/27/2019 11:24:53 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-29

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:30:00 AM

 Lab ID:
 1906E84-007
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 12:54:04 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/27/2019 12:49:09 PM	45859
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/27/2019 12:49:09 PM	45859
Surr: DNOP	88.7	70-130	%Rec	1	6/27/2019 12:49:09 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	13	4.4	mg/Kg	1	6/27/2019 11:48:19 AM	G60991
Surr: BFB	92.3	73.8-119	%Rec	1	6/27/2019 11:48:19 AM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	6/27/2019 11:48:19 AM	B60991
Toluene	0.064	0.044	mg/Kg	1	6/27/2019 11:48:19 AM	B60991
Ethylbenzene	ND	0.044	mg/Kg	1	6/27/2019 11:48:19 AM	B60991
Xylenes, Total	ND	0.088	mg/Kg	1	6/27/2019 11:48:19 AM	B60991
Surr: 4-Bromofluorobenzene	97.1	80-120	%Rec	1	6/27/2019 11:48:19 AM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-30

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:35:00 AM

 Lab ID:
 1906E84-008
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 1:31:16 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/27/2019 12:55:57 PM	45859
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/27/2019 12:55:57 PM	45859
Surr: DNOP	83.7	70-130	%Rec	1	6/27/2019 12:55:57 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	6/27/2019 12:11:47 PM	G60991
Surr: BFB	88.6	73.8-119	%Rec	5	6/27/2019 12:11:47 PM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.10	mg/Kg	5	6/27/2019 12:11:47 PM	B60991
Toluene	ND	0.21	mg/Kg	5	6/27/2019 12:11:47 PM	B60991
Ethylbenzene	ND	0.21	mg/Kg	5	6/27/2019 12:11:47 PM	B60991
Xylenes, Total	ND	0.41	mg/Kg	5	6/27/2019 12:11:47 PM	B60991
Surr: 4-Bromofluorobenzene	93.6	80-120	%Rec	5	6/27/2019 12:11:47 PM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-31

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:40:00 AM

 Lab ID:
 1906E84-009
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 1:43:41 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/27/2019 11:25:41 AM	45859
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/27/2019 11:25:41 AM	45859
Surr: DNOP	72.1	70-130	%Rec	1	6/27/2019 11:25:41 AM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	34	20	mg/Kg	5	6/27/2019 12:35:18 PM	G60991
Surr: BFB	89.7	73.8-119	%Rec	5	6/27/2019 12:35:18 PM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.10	mg/Kg	5	6/27/2019 12:35:18 PM	B60991
Toluene	0.35	0.20	mg/Kg	5	6/27/2019 12:35:18 PM	B60991
Ethylbenzene	ND	0.20	mg/Kg	5	6/27/2019 12:35:18 PM	B60991
Xylenes, Total	ND	0.40	mg/Kg	5	6/27/2019 12:35:18 PM	B60991
Surr: 4-Bromofluorobenzene	95.0	80-120	%Rec	5	6/27/2019 12:35:18 PM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-32

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:45:00 AM

 Lab ID:
 1906E84-010
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 1:56:05 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/27/2019 1:18:02 PM	45859
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/27/2019 1:18:02 PM	45859
Surr: DNOP	92.5	70-130	%Rec	1	6/27/2019 1:18:02 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	23	21	mg/Kg	5	6/27/2019 12:58:49 PM	G60991
Surr: BFB	89.7	73.8-119	%Rec	5	6/27/2019 12:58:49 PM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.10	mg/Kg	5	6/27/2019 12:58:49 PM	B60991
Toluene	0.40	0.21	mg/Kg	5	6/27/2019 12:58:49 PM	B60991
Ethylbenzene	ND	0.21	mg/Kg	5	6/27/2019 12:58:49 PM	B60991
Xylenes, Total	0.67	0.42	mg/Kg	5	6/27/2019 12:58:49 PM	B60991
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	5	6/27/2019 12:58:49 PM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-33

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:50:00 AM

 Lab ID:
 1906E84-011
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 2:08:30 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/27/2019 1:40:14 PM	45859
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/27/2019 1:40:14 PM	45859
Surr: DNOP	93.7	70-130	%Rec	1	6/27/2019 1:40:14 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	12	3.7	mg/Kg	1	6/27/2019 2:09:20 PM	G60991
Surr: BFB	94.8	73.8-119	%Rec	1	6/27/2019 2:09:20 PM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.027	0.019	mg/Kg	1	6/27/2019 2:09:20 PM	B60991
Toluene	0.22	0.037	mg/Kg	1	6/27/2019 2:09:20 PM	B60991
Ethylbenzene	ND	0.037	mg/Kg	1	6/27/2019 2:09:20 PM	B60991
Xylenes, Total	0.30	0.075	mg/Kg	1	6/27/2019 2:09:20 PM	B60991
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	6/27/2019 2:09:20 PM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: C-34

 Project:
 Bruington GC C1B
 Collection Date: 6/26/2019 10:55:00 AM

 Lab ID:
 1906E84-012
 Matrix: SOIL
 Received Date: 6/27/2019 8:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/27/2019 2:20:55 PM	45861
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/27/2019 1:13:23 PM	45859
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/27/2019 1:13:23 PM	45859
Surr: DNOP	93.3	70-130	%Rec	1	6/27/2019 1:13:23 PM	45859
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	6/27/2019 2:32:53 PM	G60991
Surr: BFB	88.0	73.8-119	%Rec	1	6/27/2019 2:32:53 PM	G60991
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	6/27/2019 2:32:53 PM	B60991
Toluene	0.069	0.037	mg/Kg	1	6/27/2019 2:32:53 PM	B60991
Ethylbenzene	ND	0.037	mg/Kg	1	6/27/2019 2:32:53 PM	B60991
Xylenes, Total	0.095	0.074	mg/Kg	1	6/27/2019 2:32:53 PM	B60991
Surr: 4-Bromofluorobenzene	94.6	80-120	%Rec	1	6/27/2019 2:32:53 PM	B60991

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E84 28-Jun-19

Client:

ENSOLUM

Project:

Bruington GC C1B

Sample ID: MB-45861

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 45861

RunNo: 60990

%REC LowLimit

Prep Date: 6/27/2019

Analysis Date: 6/27/2019 PQL

SeqNo: 2065483 Units: mg/Kg

> %RPD **RPDLimit** Qual

Analyte Chloride

ND 1.5

Sample ID: LCS-45861

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 45861 Analysis Date: 6/27/2019 RunNo: 60990

SeqNo: 2065484

Units: mg/Kg

HighLimit

SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual

RPDLimit

110

SPK value SPK Ref Val

Result

15.00

Page 13 of 16

Chloride

94.3

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

Value above quantitation range

Sample pH Not In Range

Reporting Limit

RL

%RPD

Prep Date:

6/27/2019

Analyte

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906E84**

28-Jun-19

Client:

ENSOLUM

Project:

Bruington GC C1B

Surr: DNOP	7.8		10.00		77.7	70	130			
Motor Oil Range Organics (MRO)	ND	50								
Diesel Range Organics (DRO)	ND	10		_						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 6/27/2019	Analysis D	Date: 6/	27/2019	8	SeqNo: 20	064515	Units: mg/K	(g		
Client ID: PBS	Batcl	n ID: 45 8	859	F	RunNo: 60	0979				
Sample ID: MB-45859	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Surr: DNOP	3.8		5.000		75.1	70	130			
Diesel Range Organics (DRO)	56	10	50.00	0	111	63.9	124	_		_
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 6/27/2019	Analysis D	Date: 6/	27/2019	5	SeqNo: 20	064514	Units: mg/K	(g		
Client ID: LCSS	Batcl	n ID: 45 8	859	F	RunNo: 60	0979				
Sample ID: LCS-45859	SampT	Type: LCS TestCode: EPA Method 8			8015M/D: Die	: Diesel Range Organics				

Sample ID: 1906E84-001AMS	SampT	ype: MS	6	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: C-23	Batch	ID: 45	859	R	tunNo: 6	0979				
Prep Date: 6/27/2019	Analysis D	ate: 6/	27/2019	S	SeqNo: 20	064940	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	9.9	49.60	0	122	57	142			

Sample ID: 1906E84-001AMSE	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	nge Organics					
Client ID: C-23	Batch	ID: 45	859	F	RunNo: 6	0979						
Prep Date: 6/27/2019	S	SeqNo: 2	064941	Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	57	9.7	48.64	0	117	57	142	6.49	20			
Surr: DNOP	4.5		4.864		92.3	70	130	0	0			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E84

28-Jun-19

Client:

ENSOLUM

Project:

Bruington GC C1B

Sample ID: RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: G60991

Result

RunNo: 60991

Prep Date:

Analysis Date: 6/27/2019

PQL

SeqNo: 2065164 Units: mq/Kq

%RPD

Gasoline Range Organics (GRO)

5.0

%REC

LowLimit HighLimit

RPDLimit Qual

ND

SPK value SPK Ref Val

1000

73.8

Surr: BFB

Analyte

870

87.2

Sample ID: 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: G60991

RunNo: 60991

119

Prep Date:

Analysis Date: 6/27/2019

SeqNo: 2065165

Units: mg/Kg

RPDLimit

Analyte Gasoline Range Organics (GRO) Result 24

1000

PQL

SPK value SPK Ref Val %REC LowLimit 80.1

HighLimit 123

Qual

Surr: BFB

5.0 25.00 1000

96.0 105

73.8 119

Sample ID: 1906E84-001AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: C-23

Batch ID: G60991

RunNo: 60991

97.4

Prep Date:

Analysis Date: 6/27/2019

SeqNo: 2065166

Units: mg/Kg

Analyte

Result PQL SPK value SPK Ref Val 0

%REC LowLimit

HighLimit %RPD

%RPD

Qual

Gasoline Range Organics (GRO)

17 760

Result

18

820

3.9 19.46

778.2

88.9

69.1 73.8 **RPDLimit**

Qual

Surr: BFB

Sample ID: 1906E84-001AMSD

SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range

Client ID: C-23 Prep Date:

Batch ID: G60991

3.9

Analysis Date: 6/27/2019

RunNo: 60991

142

119

Units: mg/Kg

RPDLimit 20

0

%RPD

Analyte Gasoline Range Organics (GRO) Surr: BFB

PQL

SPK value SPK Ref Val 19.46

778.2

%REC

SeqNo: 2065167

94.9

105

LowLimit 69.1

73.8

HighLimit 142

119

6.57

0

Qualifiers:

Н

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E84

28-Jun-19

Client: ENSOLUM

Project: Bruington GC C1B

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: **B60991** RunNo: 60991

Prep Date: Analysis Date: 6/27/2019 SeqNo: 2065195 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.93 1.000 93.1 80 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: **B60991** RunNo: 60991

0.72

2.3

0.72

0.077

0.7669

2.301

0.7669

Prep Date:	Analysis [Date: 6/	27/2019	8	SeqNo: 2065196 Units: mg/Kg			_J /Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.025	1.000	0	99.5	80	120				
Toluene	1.0	0.050	1.000	0	103	80	120				
Ethylbenzene	1.0	0.050	1.000	0	105	80	120				
Xylenes, Total	3.1	0.10	3.000	0	105	80	120				
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	80	120				

Sample ID: 1906E84-002AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: C-24	Batch	1D: B6	0991	F	RunNo: 6	0991				
Prep Date:	Analysis D	ate: 6/	27/2019	8	SeqNo: 2	065197	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.019	0.7669	0.01081	95.5	63.9	127			
Toluene	0.80	0.038	0.7669	0.02101	101	69.9	131			
Ethylbenzene	0.78	0.038	0.7669	0	102	71	132			
Xylenes Total	2.4	0.077	2.301	0.01679	102	71.8	131			

Sample ID: 1906E84-002AM	6E84-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: C-24	Batcl	n ID: B6	RunNo: 60991							
Prep Date:	Analysis D	Date: 6/	27/2019	S	SeqNo: 2	065198	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.019	0.7669	0.01081	95.3	63.9	127	0.238	20	
Toluene	0.70	0.000	0.7000	0.00404	100	69.9	101	0.917	20	
10100110	0.79	0.038	0.7669	0.02101	100	69.9	131	0.917	20	

0.01679

Qualifiers:

Xylenes, Total

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

101

94.5

94.0

120

131

120

0.733

0

80

71.8

80

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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20 0



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	ENSOLUM AZTEC	Work Order Num	ber: 1906E84		RcptNo: 1	
Received By:	Anne Thorne	6/27/2019 8:25:00	АМ	Anne Stran Anne Stran	_	
Completed By:	Anne Thorne	6/27/2019 8:41:11	АМ	1. 11		
Reviewed By:	ENM	6/27/19		ame stran		
Chain of Custo	<u>ody</u>					
1. Is Chain of Cus	stody complete?		Yes 🗹	No 🗀	Not Present	
2. How was the sa	ample delivered?	•	<u>Courier</u>			
<u>Log In</u>						
Was an attemp	t made to cool the san	nples?	Yes 🗹	No 🗌 .	NA 🗌	
4. Were all sample	es received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square	
5. Sample(s) in pr	roper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sampl	le volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (ex	ccept VOA and ONG) p	properly preserved?	Yes 🗸	No 🗌		
8. Was preservativ	e added to bottles?		Yes	No 🔽	NA 🗆	•
9. VOA vials have	zero headspace?	·	Yes	No 🗆	No VOA Vials	19
10. Were any samp	ole containers received	broken?	Yes 🗆	No 🗹	# of preserved	06/2-21/2
	c match bottle labels?	dy)	Yes 🔽		bottles checked for pH:	2 unless noted)
2. Are matrices con	rrectly identified on Ch	ain of Custody?	Yes 🗹	No 🗆	Adjusted?	
3. Is it clear what a	ınalyses were requeste	ed?	Yes 🗹	No 🗆		
=	times able to be met?		Yes 🗹	No 🗆	Checked by:	
	tomer for authorization I g (if applicable))		/-		
·	ied of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Person N	otified:	Date			<u>"</u>	-
By Whom	1:	Via:	☐ eMail ☐ P	hone Fax [In Person	
Regarding	j:					
Client Inst	tructions:				Marian Maria Constitution Const	
16. Additional rema	arks: () sh	du Sala int	act on	soil Ja	- < 10	
7. <u>Cooler Inform</u>	ation	Did mas with		J. J.	-5 1A-06/271	19
Cooler No	Temp °C Condition	seal Intact Seal No	Seal Date	Signed By		
**************************************	2.6 Good	Yes		emakki dhe medhakana kekele		
2 (0.6 Good	Yes				
3	0.8 Good	Yes				
4	5.7 Good	Yes				

Received by OCD: 6/2/20	:26:48 AM		Page 104 of 123
ENTAL SATORY			S. A. L. S. A. L. S.
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	CI, F., Br, MO ₃ , MO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	2	RBSIDOR
HALL ANAL www.hal 4901 Hawkins NE - Tel. 505-345-3975	PAHs by 8310 or 8270SIMS RCRA 8 Metals		For Long
HALL ANA www.h 4901 Hawkins NE Tel. 505-345-3978	8081 Pesticides/8082 PCB's		S: Pary Por f
490°	(ORM \ ORO \ DRO 18018:HGT		Remarks:
	BTEX / MEBE / THUBE (8021)	87 E NI C M L	20-7 3 21 g
2000 2000 2000 2000 2000 2000 2000 200	1.61) 11.10	202 202 204 204 204 204 204 204 204 204	2010 2010 Date Time ULup[19.13 46 6012 TIME 00316 0025 0025 0025 0025 0025
nd Time: ard & Rush me: v. as lon (Semm. CDAport. CYES THE STATE OF THE SERVATIVE TYPE		Va:
Turn-Around Time: ☐ Standard Project Name: \$\int \lambda \cdot	Project Manager: K, Scm. Sampler: CDApte On Ice: KYes # of Coolers # 2 Cooler Tempineusing chi: 2 Cooler Tempineusing chi: 3 Co		Received by: Received by:
Chain-of-Custody Record t: Ensolvn g Address: Lot S R.co Grank Let In	☐ Az Compliance ☐ Other ☐ Other ☐ Matrix Sample Name	6-34 6-35 6-37 6-37 6-39 6-39	1045 1045 1055
Ensolon dress: Loc	□ Az Co □ Other		Relinquished by: Relinquished by:
Chain-Client: Ense	r Fax#: Package: dard tation: AC (Type)	1015 1015 1015 1036 1035 1035	1045 1055 1055 Time:
Client: Mailing A	email or Fax#: QA/QC Package: Standard Accreditation: Deferor (Type)		1045 1045 Date: Time: 1055 Date: Time: 1946 Myd 1346



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1906F82

July 01, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Bruington GC C1B

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/28/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-35

 Project:
 Bruington GC C1B
 Collection Date: 6/27/2019 8:00:00 AM

 Lab ID:
 1906F82-001
 Matrix: MEOH (SOIL)
 Received Date: 6/28/2019 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	6/28/2019 1:12:53 PM	45893
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/28/2019 12:09:26 PM	45889
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/28/2019 12:09:26 PM	45889
Surr: DNOP	85.6	70-130	%Rec	1	6/28/2019 12:09:26 PM	45889
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	6/28/2019 12:24:41 PM	G61018
Surr: BFB	97.5	73.8-119	%Rec	1	6/28/2019 12:24:41 PM	G61018
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.022	mg/Kg	1	6/28/2019 12:24:41 PM	R61018
Toluene	ND	0.044	mg/Kg	1	6/28/2019 12:24:41 PM	R61018
Ethylbenzene	ND	0.044	mg/Kg	1	6/28/2019 12:24:41 PM	R61018
Xylenes, Total	ND	0.087	mg/Kg	1	6/28/2019 12:24:41 PM	R61018
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	1	6/28/2019 12:24:41 PM	R61018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-36

Project: Bruington GC C1B Collection Date: 6/27/2019 8:05:00 AM

Lab ID: 1906F82-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/28/2019 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	6/28/2019 1:25:17 PM	45893
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/28/2019 12:33:42 PM	45889
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/28/2019 12:33:42 PM	45889
Surr: DNOP	90.6	70-130	%Rec	1	6/28/2019 12:33:42 PM	45889
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	6/28/2019 12:47:22 PM	G61018
Surr: BFB	103	73.8-119	%Rec	1	6/28/2019 12:47:22 PM	G61018
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.021	mg/Kg	1	6/28/2019 12:47:22 PM	R61018
Toluene	0.16	0.042	mg/Kg	1	6/28/2019 12:47:22 PM	R61018
Ethylbenzene	ND	0.042	mg/Kg	1	6/28/2019 12:47:22 PM	R61018
Xylenes, Total	0.15	0.084	mg/Kg	1	6/28/2019 12:47:22 PM	R61018
Surr: 4-Bromofluorobenzene	96.4	80-120	%Rec	1	6/28/2019 12:47:22 PM	R61018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

1906F82-003

Lab ID:

Analytical Report Lab Order 1906F82

Received Date: 6/28/2019 8:30:00 AM

Date Reported: 7/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-37

Project: Bruington GC C1B Collection Date: 6/27/2019 8:10:00 AM Matrix: MEOH (SOIL)

Result **RL Qual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 6/28/2019 1:37:41 PM 45893 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.3 mg/Kg 6/28/2019 12:57:55 PM 45889 Motor Oil Range Organics (MRO) ND mg/Kg 47 1 6/28/2019 12:57:55 PM Surr: DNOP 88.3 70-130 %Rec 6/28/2019 12:57:55 PM 45889 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 6/28/2019 1:10:06 PM Gasoline Range Organics (GRO) ND G61018 mg/Kg 4.5 1 Surr: BFB 102 6/28/2019 1:10:06 PM G61018 73.8-119 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 6/28/2019 1:10:06 PM R61018 Benzene 0.022 mg/Kg Toluene 0.14 0.045 mg/Kg 6/28/2019 1:10:06 PM R61018 1 Ethylbenzene ND 0.045 mg/Kg 6/28/2019 1:10:06 PM R61018 1 Xylenes, Total 0.12 0.090 mg/Kg 6/28/2019 1:10:06 PM R61018 Surr: 4-Bromofluorobenzene 94.4 80-120 %Rec 6/28/2019 1:10:06 PM R61018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RI. Reporting Limit

Page 3 of 9

Analytical Report Lab Order 1906F82

Date Reported: 7/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-38

 Project:
 Bruington GC C1B
 Collection Date: 6/27/2019 8:15:00 AM

 Lab ID:
 1906F82-004
 Matrix: MEOH (SOIL)
 Received Date: 6/28/2019 8:30:00 AM

Result **RL Qual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA 6/28/2019 1:50:06 PM Chloride ND 60 mg/Kg 45893 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.1 mg/Kg 6/28/2019 1:27:38 PM 45889 Motor Oil Range Organics (MRO) ND mg/Kg 45 1 6/28/2019 1:27:38 PM 45889 Surr: DNOP 88.3 70-130 %Rec 6/28/2019 1:27:38 PM 45889 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 6/28/2019 1:55:34 PM G61018 Gasoline Range Organics (GRO) ND mg/Kg 4.5 1 Surr: BFB 103 6/28/2019 1:55:34 PM G61018 73.8-119 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 6/28/2019 1:55:34 PM Benzene 0.023 R61018 mg/Kg Toluene ND 0.045 mg/Kg 6/28/2019 1:55:34 PM R61018 1 Ethylbenzene ND 0.045 mg/Kg 6/28/2019 1:55:34 PM R61018 1 Xylenes, Total ND 0.090 mg/Kg 6/28/2019 1:55:34 PM R61018 Surr: 4-Bromofluorobenzene 97.0 80-120 %Rec 6/28/2019 1:55:34 PM R61018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

1906F82-005

Lab ID:

Analytical Report Lab Order 1906F82

Received Date: 6/28/2019 8:30:00 AM

Date Reported: 7/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-39

Project: Bruington GC C1B Collection Date: 6/27/2019 8:20:00 AM Matrix: MEOH (SOIL)

Result **RL Qual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 6/28/2019 2:02:31 PM 45893 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.3 mg/Kg 6/28/2019 1:51:56 PM 45889 Motor Oil Range Organics (MRO) ND mg/Kg 47 1 6/28/2019 1:51:56 PM 45889 Surr: DNOP 88.3 70-130 %Rec 6/28/2019 1:51:56 PM 45889 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 6/28/2019 2:18:21 PM Gasoline Range Organics (GRO) ND G61018 3.9 mg/Kg 1 Surr: BFB 103 6/28/2019 2:18:21 PM G61018 73.8-119 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 6/28/2019 2:18:21 PM Benzene 0.019 R61018 mg/Kg Toluene ND 0.039 mg/Kg 6/28/2019 2:18:21 PM R61018 1 Ethylbenzene ND 0.039 mg/Kg 6/28/2019 2:18:21 PM R61018 1 Xylenes, Total ND 0.077 mg/Kg 6/28/2019 2:18:21 PM R61018 Surr: 4-Bromofluorobenzene 95.7 80-120 %Rec 6/28/2019 2:18:21 PM R61018

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RI. Reporting Limit

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906F82

01-Jul-19

Client:

ENSOLUM

Project: Bruington GC C1B

Sample ID MB-45893

SampType: mblk

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID: **PBS**

6/28/2019

Batch ID: 45893 Analysis Date: 6/28/2019 RunNo: 61037

SeqNo: 2067458

Units: mg/Kg

Qual

Analyte

Prep Date:

Result **PQL**

ND 1.5

%REC LowLimit HighLimit %RPD

RPDLimit

Chloride

SampType: Ics

RunNo: 61037

Client ID: LCSS Prep Date: 6/28/2019

Sample ID LCS-45893

Batch ID: 45893 Analysis Date: 6/28/2019

SeqNo: 2067459

Units: mg/Kg

HighLimit

110

Analyte

Result

14

SPK value SPK Ref Val %REC LowLimit

0

95.2

RPDLimit

Qual

1.5

%RPD

Chloride

15.00

SPK value SPK Ref Val

Qualifiers:

Н

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F82**

01-Jul-19

Client: ENSOLUM
Project: Bruington GC C1B

Sample ID LCS-45845 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 45845 RunNo: 61002

Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2065564 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 6.3 5.000 127 70 130

Sample ID MB-45889 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 45889 RunNo: 61002 Prep Date: 6/28/2019 Analysis Date: 6/28/2019 SeqNo: 2065968 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result **PQL** HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.5 10.00 85.4 70 130

Sample ID LCS-45889 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 45889 RunNo: 61002 Prep Date: 6/28/2019 Analysis Date: 6/28/2019 SeqNo: 2065969 Units: mg/Kg %RPD LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 50.00 87.4 63.9 124 Surr: DNOP 4.2 5.000 83.1 70 130

Sample ID MB-45871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 45871 RunNo: 61002 Prep Date: 6/27/2019 Analysis Date: 6/29/2019 SeqNo: 2066567 Units: %Rec Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 8.6 10.00 85.9 70 130

Sample ID LCS-45871 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: Batch ID: 45871 LCSS RunNo: 61002 Prep Date: 6/27/2019 Analysis Date: 6/29/2019 SeqNo: 2066568 Units: %Rec %RPD SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte Result LowLimit Qual Surr: DNOP 4.6 5.000 92.5 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906F82

01-Jul-19

Client:

ENSOLUM

Project:

Bruington GC C1B

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: **G61018**

Result

RunNo: 61018

Analysis Date: 6/28/2019

PQL

%REC

SeqNo: 2065999

Units: mg/Kg

Qual

Prep Date: Analyte

Surr: BFB

Prep Date:

Gasoline Range Organics (GRO)

25 5.0 1100

SPK value SPK Ref Val 25.00 0 1000

98.9 80.1 73.8 114

LowLimit

123 119

HighLimit

RPDLimit

Sample ID RB

SampType: MBLK

Analysis Date: 6/28/2019

PQL

TestCode: EPA Method 8015D: Gasoline Range

%RPD

%RPD

Client ID: PBS

Batch ID: **G61018**

Result

RunNo: 61018

Units: mg/Kg

RPDLimit Qual

Analyte Gasoline Range Organics (GRO)

ND 5.0

SPK value SPK Ref Val %REC LowLimit

73.8

Surr: BFB

1000

1000

103

SeqNo: 2066000

119

HighLimit

Qualifiers:

Н

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F82**

01-Jul-19

Client: ENSOLUM

Project: Bruington GC C1B

Sample ID 100NG BTEX LCS	Samp1	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: R6	1018	F	RunNo: 6	1018				
Prep Date:	Analysis [Date: 6/	28/2019	8	SeqNo: 2	066002	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	80	120			
Toluene	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID RB	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: R6	1018	R	RunNo: 6	1018				
Prep Date:	Analysis [Date: 6/	28/2019	S	SeqNo: 2	066007	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.5	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: 1906F82 RcptNo: 1 Received By: Thom Maybee 6/28/2019 8:30:00 AM unas. Completed By: Erin Melendrez 6/28/2019 8:53:15 AM Reviewed By: 4/28/14 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V NA Sample(s) in proper container(s)? Yes V No 🗆 No 🗆 Sufficient sample volume for indicated test(s)? Yes V 7. Are samples (except VOA and ONG) properly preserved? Yes V No 🗌 No V 8. Was preservative added to bottles? Yes NA 🗌 9. VOA vials have zero headspace? Yes [No 🗌 No VOA Vials V 70 Yes 🗌 10, Were any sample containers received broken? No V 6/28/19 # of preserved bottles checked No 🗌 11. Does paperwork match bottle labels? Yes V for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No 🗆 12 Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13 is it clear what analyses were requested? Yes V 14. Were all holding times able to be met? Yes V No [Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA V Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Condition Cooler No Temp °C Seal Intact Seal No Seal Date Signed By 1.8 Good Yes 3.6 Good

Yes

Client:								j				
		Ensolon		□ Standard	Rush	P1-38-19		A	AIN	SIS	IABO	ANALYSIS LABORATORY
				Project Name:				**	w.haller	vironm	www.hallenvironmental.com	
Mailing	Mailing Address:	2: 7 16	S Rio Grende	Bruil	Bruington GC	5 673	49011	Hawkins	NE - A	buquer	4901 Hawkins NE - Albuquerque, NM 87109	109
A.	Aztec	Nm		Project #:			Tel. 5	505-345-3975	3975	Fax 5	505-345-4107	7
Phone #:	**			0	05A1336058	250			Ana	Analysis Request	equest	
email or Fax#:	r Fax#:			Project Manager:	ager.				6		(tn	
QA/QC	QA/QC Package:		Variability III (T) M Journal of Co.	7	C		AM/				i∋sdA\	
□ Standard	dard		☐ Level 4 (Full Validation)	,	Summer		оя			. 14	дuғ	
Accreditation:	itation:	□ Az C	☐ Az Compliance	Sampler:	ODHPONT:		Id /	(1.4			1111111	
□ NELAC	AC	□ Other	91	On Ice:	R Yes	ON D	Ο۶	709	s		21350	
□ EDD (Type)	(Type)			# of Coolers:	7		19)	ро	lete	(
				Cooler Temp(manng CF):	S() (42 Bulleting CE); [8	3,40=1,8/3,640-76	ast.	yeth	M 8	AO/		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1900 PFSZ	NETEX / 08:H9T 9 1808	N) 803 PAHs b	RCRA (I) Fred	v) 09Z8	2) 0728 O latoT	
27/19	800	8	5-35	1402		-001	メメ			-		
-		-	5.36	_		200-	-		-			
	810		5-37			-003						
	818		88-5			-00H						
_	068	_	5-39	_	•	-005						
102												
Date:	Time:	Relinquished by	hed by:	Received by:	Vie:	Dete Time	Remarks:	1	No.	RB3	RB 21300	
Date: Time:	Time:	1	oquished by	Received by	Via: Co. C.	F &	**	7年- 7	0	Was and		age of the second



APPENDIX F

New Mexico EMNRD OCD Correspondence

From: Long, Thomas

To: "Smith, Cory, EMNRD (Cory, Smith@state.nm.us)"; "aadeloye@blm.gov"

Cc: Stone, Brian

Subject: FW: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Date: Monday, July 1, 2019 7:30:00 AM

Attachments: <u>image001.jpg</u>

Site drawing 2.pdf

Rpt 1906E84 Bruington GC C1B Final v1.pdf Rpt 1906B29 Bruington GC C B Final v1.pdf Rpt 1906D11 Bruington GC C1B Final v1.pdf

Cory/Emmanuel,

Please find the attaches site sketch and lab reports for the Bruington excavation. All sample results are now below the Tier I standers for this area. Enterprise will backfill the excavation with clean imported fill material. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

Sent: Thursday, June 27, 2019 9:55 AM

To: Long, Thomas <tjlong@eprod.com>; 'aadeloye@blm.gov' <aadeloye@blm.gov>

Cc: Stone, Brian

 bmstone@eprod.com>

Subject: RE: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Tom,

OCD has processed the initial C-141 for the Bruington GC 1B it will be scanned into 3RP-1011.

NCS1916849922 BRUINGTON GC 1B @ FJK1424831933

General Incident Information
Site Name: BRUINGTON GC 1B

Well:

Facility: [fJK1424831933] ENTERPRISE SAN JUAN PIPELINE 3R-1011

Operator: [151618] ENTERPRISE FIELD SERVICES L.L.C.

Status: Closure Not Approved

Type: Other
District: Aztec
Severity:

Surface Owner: Federal County: San Juan (45)

Incident Location: M-02-30N-11W Lot: 0 FNL 0 FEL

Lat/Long: 36.79392,-107.997801 NAD83

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Smith, Cory, EMNRD

Sent: Wednesday, June 26, 2019 1:30 PM

To: 'Long, Thomas' <tilong@eprod.com'>; 'aadeloye@blm.gov' <aadeloye@blm.gov'>

Cc: Stone, Brian < bmstone@eprod.com>

Subject: RE: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Tom,

As discussed onsite OCD approves please include this in your final C-141

Thanks Tom.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas < tilong@eprod.com > Sent: Wednesday, June 26, 2019 12:12 PM

To: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>; 'aadeloye@blm.gov' < aadeloye@blm.gov' >

Cc: Stone, Brian < bmstone@eprod.com>

Subject: [EXT] FW: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Cory,

This email is a variance request for the Bruington GC 1B excavation. Enterprise requests to collect composite soil samples every 400 square feet instead of every 200 square feet. Please acknowledge acceptance of the variance request.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Long, Thomas

Sent: Wednesday, June 26, 2019 7:21 AM

To: 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)' < <u>Cory.Smith@state.nm.us</u>>;

'aadeloye@blm.gov' <<u>aadeloye@blm.gov</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: FW: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Cory/Emmanuel,

Please find the attached site sketch and lab reports for the first two sampling events at the Bruington GC1B excavation. All sample results are below Tier I standards. Enterprise will continue remediating towards the east and west. We are still on schedule to sample again at 1:00 p.m. this afternoon. If you have any questions, please call or email.

Sincerely,

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office)

505-215-4727 (Cell) <u>tilong@eprod.com</u>



From: Long, Thomas

Sent: Monday, June 24, 2019 1:52 PM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us;

'l1thomas@blm.gov' <<u>l1thomas@blm.gov</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: FW: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Cory/Whitney,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis Wednesday, June 26, 2019 at 1:00 p.m. If you have any questions, please call or email.

Tom Long 505-599-2286 (office) 505-215-4727 (Cell) tilong@eprod.com

From: Long, Thomas

Sent: Friday, June 21, 2019 3:14 PM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' < Cory.Smith@state.nm.us>;

'l1thomas@blm.gov' <<u>l1thomas@blm.gov</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: FW: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Cory/Whitney,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis Monday, June 24, 2019 at 11:00 a.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Long, Thomas

Sent: Wednesday, June 19, 2019 3:35 PM

To: 'Smith, Cory, EMNRD (Cory, Smith@state.nm.us)' < Cory, Smith@state.nm.us>;

'l1thomas@blm.gov' <<u>l1thomas@blm.gov</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: FW: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Cory/Whitney,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis tomorrow, June 20, 2019 at 11:00 a.m. or at any other time you are available tomorrow. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Long, Thomas

Sent: Monday, June 17, 2019 12:41 PM

To: 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)' < <u>Cory.Smith@state.nm.us</u>>;

'l1thomas@blm.gov' <<u>l1thomas@blm.gov</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: Bruington GC 1B- UL M Section 2 T30N R11W; 36.79392, -107.99780

Cory/Whitney,

This is a notification that Enterprise had a release of hydro-static test water on the Bruington GC 1B pipeline on June 5, 2019 during testing activities. No fluids were released to surface. The release is located at UL M Section 2 T30N R11W; 36.79392, -107.99780. Enterprise began repairs and

remediation on Friday, June 14, 2019 and Enterprise determined this release reportable per NMOCD regulation on Monday, June 17, 2019 due to the volume of subsurface impacted soil. I will keep you informed as to when we will collect soil samples for laboratory analysis. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-228
505-215-4727 (Cell)
tilong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.