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 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

Responsible Party: Enterprise Field Services, LLC	OGRID: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NCE2003538771
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude <u>36.549324</u>	Longitude	(NAD 83 in decimal degrees to 5 decimal places)
Site Name Lateral C-7 Loop Pipeline	Site Type Natura	Gas Gathering Pipeline
Date Release Discovered: 01/08/2020	Serial Number (if a	pplicable):) N/A

Unit Letter	Section	Township	Range	County
G	25	27N	9W	San Juan

Surface Owner: State Federal Tribal Private (Name: Navajo Nation

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls): 5-7 BBLS Volume Recovered (bbls): None Natural Gas Volume Released (Mcf): 22 MCF Volume Recovered (Mcf): None Other (describe) Volume/Weight Released (provide units): Volume/Weight Recovered (provide units) Cause of Release: On January 8, 2020, Enterprise discovered a natural gas release on the Lateral C-7 Loop pipeline. No fluids were

released to the ground surface. The pipeline was blown down, depressurized, locked out and tagged out. The release was located in an ephemeral wash (a blue line on a USGS Topo Map). Remediation was completed on January 23, 2020. The final excavation dimensions measured approximately 30 feet long by 16 feet wide by approximately 15.5 feet deep. Approximately 96 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

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Page 2

Oil Conservation Division

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 Attac	chment Checklist: Each of the follow	ring items must be incl	uded in the closure report.
\square A scaled site and s	sampling diagram as described in 19.15	5.29.11 NMAC	
	e remediated site prior to backfill or ph s prior to liner inspection)	notos of the liner integr	ity if applicable (Note: appropriate OCD District office
Laboratory analyse	es of final sampling (Note: appropriate	ODC District office m	ust be notified 2 days prior to final sampling)
Description of rem	rediation activities		
and regulations all operating may endanger public heat should their operations heat human health or the environment of the envi	ators are required to report and/or file c alth or the environment. The acceptance have failed to adequately investigate an ironment. In addition, OCD acceptance her federal, state, or local laws and/or re- vegetate the impacted surface area to the 29.13 NMAC including notification to t	ertain release notification of a C-141 report by d remediate contaminate of a C-141 report do egulations. The response ne conditions that exist exist a conditions that exist d conditions that exist conditions that exist conditions that exist conditions that exist conditions condititat condititat condititat conditions cond	ronmental
OCD Only			
Received by:		Date:	
remediate contamination	OCD does not relieve the responsible p that poses a threat to groundwater, surf any other federal, state, or local laws a	face water, human heal	their operations have failed to adequately investigate and h, or the environment nor does not relieve the responsible
Closure Approved by:	Nelson Velez	Date:	05/16/2022
Printed Name:	Nelson Velez Nelson Velez	Title:	Environmental Specialist – Adv



CLOSURE REPORT

Property:

Lateral C-7 Loop Pipeline Release NE ¼, S25 T27N R9W San Juan County, New Mexico

September 18, 2020 Ensolum Project No. 05A1226087

Prepared for:

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

Prepared by:

et Lechi

Ranee Deechilly Environmental Scientist

Umm

Kyle Summers, CPG Sr. Project Manager

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Appendix D:	Photograph	ic Documentation
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CLOSURE REPORT

Lateral C-7 Loop Pipeline Release NE ¼, S25 T27N R9W San Juan County, New Mexico

Ensolum Project No. 05A1226087

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral C-7 Loop Pipeline Release (Site)
Location:	36.549324° North, 107.736168° West Northeast (NE) ¼ of Section 25, Township 27 North, Range 9 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 8, 2020, a release of natural gas was identified on the Lateral C-7 Loop pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On January 14, 2020, Enterprise initiated activities to facilitate the repair of the pipeline and remediate potential 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 NNEPA and the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. Ensolum utilized 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. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

• The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release September 18, 2020



and includes an interactive map). No PODs were identified within a one-mile radius of the Site in the OSE WRRS database. In addition, no PODs were identified in adjacent Sections.

- One (1) cathodic protection well was identified within a mile of the Site. The cathodic protection well associated with the Huerfanito Unit #10, #178, #151 oil/gas production wells (Unit A, Sec 36 T27N R9W), located approximately 0.9 miles south of the Site and at a higher elevation (6,135 feet) than the Site (6,119 feet), indicates a depth to water of approximately 25 feet below grade surface (bgs).
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. An ephemeral wash is located approximately 55 feet north of the excavation.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not 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 New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland.
- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (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.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, 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	Method	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 January 14, 2020, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact. During the remediation and corrective action activities, Halo Services, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 30 feet long and 16 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 15.5 feet bgs.

The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

A total of approximately 96 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation will be backfilled with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils and then contoured to the surrounding grade.

Figure 3 (**Appendix A**) 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 D**.

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of 21 composite soil samples (S-1 through S-21), comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, two (2) composite soil samples (SP-1 and SP-2) were collected from the 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 was utilized to obtain fresh aliquots from areas of the excavation that exceeded depths greater than 10 feet bgs. Regulatory correspondence is provided in **Appendix G**.

First Sampling Event

On January 15, 2020, the initial pipeline repair excavation was sampled. Composite soil samples S-1 (10'), S-2 (10'), and S-10 (9') were collected from the floor of the excavation. Composite soil samples S-3 (0'-10'), S-4 (0'-10'), S-5 (0'-10'), S-6 (0'-10'), S-7 (0'-10'), S-8 (0'-9'), S-9 (0'-7'), S-11 (0'-5'), S-12 (0'-7'), S-13 (0'-9'), and S-14 (0'-10') were collected from the sidewalls of the initial repair-excavation. The floor on the southern portion of the excavation was not sampled during this sampling event because additional excavation was deemed necessary in that area.

Second Sampling Event

On January 17, 2020, a second sampling event was performed. Composite soil samples S-15 (14') and S-16 (14') were collected from the floor of the southern portion of the excavation. Composite soil samples S-17 (10'-14'), S-18 (10'-14'), S-19 (10'-14'), and S-20 (10'-14') were collected from the lower portion of the newly exposed sidewalls. The analytical results indicated that the chloride concentration in sample S-16 exceeded the New Mexico EMNRD OCD closure criteria. In response to that exceedance, Enterprise deepened the excavation and removed the soil associated with composite sample S-16. Removed soils were transported to the landfarm for disposal and remediation. Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release September 18, 2020



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Third Sampling Event

After additional excavation, a third sampling event was performed on January 23, 2020. Composite soil sample S-21 (15.5') was collected from the floor of the excavation to replace composite soil sample S-16, which was removed by excavation due to elevated chlorides.

The soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were 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; 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.

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

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory supplied practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-15, S-17 through S-21, SP-1, and SP-2) to the applicable New Mexico EMNRD OCD closure criteria. Soil associated with composite soil sample S-16 was transported to Envirotech landfarm for disposal/remediation and is not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical result for composite soil sample S-14 indicates a combined TPH GRO/DRO/MRO concentration of 12 mg/kg, which does not exceed the applicable 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 TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride concentrations ranging from below laboratory PQLs/RLs to 590 mg/kg (S-15), which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

The laboratory analytical results are summarized in Table 1 (Appendix E).

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release September 18, 2020



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7.0 RECLAMATION AND REVEGETATION

Due to the international novel coronavirus, Enterprise has been unable to obtain suitable pipe to complete pipeline repairs. Once the pipeline repairs are completed, Enterprise will backfill the excavation with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils and then contoured to the surrounding grade. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

- A total of 21 composite soil samples were collected from the excavation. In addition, two (2) composite soil samples were collected from segregated stockpiled soils. Based on laboratory analytical results, the soils remaining in place at the Site do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- A total of approximately 96 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. A combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils will be used to backfill the excavation. The excavation will then be contoured to the 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 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 recommendation 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, 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 of Enterprise 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 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

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APPENDIX B

Siting Figures and Documentation

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 25, 24, 23, 26, Township: 27N 35, 36

Range: 09W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 19, 30, 31

Township: 27N

Range: 08W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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lf any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

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*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Received by OCD: 10/29/2020 8:14:21 AM Page 26 of 96 WELL CASING CATHOD PROTECTION CONSTRUCTION REPORT Comp 7128 DAILY LOG Completion Date 6-27-8 Drilling Log (Attach Hereto) \square . 876 Work Order 5. Ins. Union Check 05. Well Name, Line or Plant: Good Bad . 3513A 2159 Kula 7 Lm Location: Loode Size Anode Type: Size Bit: 6 44 NE '_ 6-27-2 X 60 Depth Drilled Depth Logged No. Sacks Mud Used ---**Drilling Rig Tin** Total Lbs. Goke Used 300 303 Anode Depth 1 2 235 # 3 225 # 4 2/5 # 5 205 # 6 195 # 7 185 # 8 175 # 9 165 # 10/55 *1245 Anode Output (Amps) # 6 5.8 *1 5.5 # 2 5.9 #76.8 #9 6.8 # 106.5 #3 57 # 4 6.4 # 5 1= 8 6.8 6.1 **Anode Depth** # 17 # 11 # 12 # 13 # 14 # 15 # 16 # 18 # 19 # 20 Anode Output (Amps) # 17 # 20 # 11 # 12 # 13 # 14 # 15 # 18 # 19 # 16 No. 2 C.P. Cable Used Total Circuit Resistance No. 8 C.P. Cable Used 44 Ohma Volts 11.95 Amps 27.0 Duller said longed 303 led 300 Remarks: sing (1 hr. A serfasated ρνε batta <u>60 V</u> 301 Rectifier Size:___ All Construction Completed Addn'l Depth_ 75 Depth Credit:__ 20 Extra Cable:_ 360 150 -10 Ditch & 1 Cable:_ (Signature) 25 'Meter Pole:_ GROUND BED LAYOUT SKETCH 20' Meter Pole: Nuesparito "10 10' Stub Pole: Junction Box: Surface Casing 30 1hr. 3.870.00 2 Dehg 789.001 ۵'n - 738. 75 🗸 N 72.00 1 805.00 / 333.751 237.00 1 138.00, 180 5506.00/ 2753 o 7 , 3t 5781.30 Released to Imaging: 5/16/2022 1:26:13 PM

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APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

97057-1062 Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT S	OLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	AFE: Pending PayKey: RB21200 PM: Maron O'Brien
2. Originating Site: Lateral C-7 Loop	
3. Location of Material (Street Address, City, State or ULSTR): UL G Section 25 T27N R9W; 36.549324 -107.736168	Jan. 2020
4. Source and Description of Waste: Source: Remediation activities associated with a natural gas pipeline leak. Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. Estimated Volume <u>50</u> yd bbls Known Volume (to be entered by the operator at the end of	
5. GENERATOR CERTIFICATION STATEMENT OF WAS	TE STATUS
I, Thomas Long There by, representative or authorized agent for Enterprise Products Operating Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Env regulatory 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. <u>Operator Use Only: Waste Acceptance Frequency</u> Monthly	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardou subpart D, as amended. The following documentation is attached to demonstrate the above the appropriate items)	us waste as defined in 40 CFR, part 261,
🗆 MSDS Information 🔲 RCRA Hazardous Waste Analysis 🔲 Process Knowledge 🗖	Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMI	ENT FOR LANDFARMS
I, Thomas Long Generator Signature the required testing/sign the Generator Waste Testing Certification.	
I, <u>Given Cwa 5 wa</u> , representative for <u>Envirotech. Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test and teste have been found to conform to the specific requirements applicable to landfarms pursuant to Se of the representative samples are attached to demonstrate the above-described waste conform to 19.15.36 NMAC.	ection 15 of 19.15.36 NMAC. The results
5. Transporter: Biley Industrial Halo	
OCD Permitted Surface Waste Management Facility	
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM Address of Facility: Hilltop, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Z Landfarm La	
Waste Acceptance Status:	· · · · · · · · · · · · · · · · · · ·
	Must Be Maintained As Permanent Record) Angca DATE: <u>1/17/20</u> 2-0615

.



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release Ensolum Project No. 05A1226087





SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release Ensolum Project No. 05A1226087



Photograph 4

Photograph Description: View of the final pipeline excavation.





APPENDIX E

Table 1 – Soil Analytical Summary

. Released to Imaging: 5/16/2022 1:26:13 PM

ENSOLUM

TABLE 1 Lateral C-7 Loop Pipeline Release SOIL ANALYTICAL SUMMARY													
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (Feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria			10	NE	NE	NE	50				100	600	
Composite Soil Sample Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-16	1.17.20	С	14	<0.014	<0.029	<0.029	<0.058	ND	<2.9	<9.7	<49	ND	670
Stockpiled Soil Samples													
SP-1	1.15.20	С	Stockpile	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.7	<48	ND	<60
SP-2	1.15.20	С	Stockpile	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.1	<45	ND	<61
						Excavation Com	oosite Soil Sample	s					
S-1	1.15.20	С	10	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<8.8	<44	ND	140
S-2	1.15.20	С	10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.6	<48	ND	140
S-3	1.15.20	С	0 to 10	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.3	<46	ND	<60
S-4	1.15.20	С	0 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<48	ND	<60
S-5	1.15.20	С	0 to 10	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.5	<47	ND	110
S-6	1.15.20	С	0 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<10	<51	ND	230
S-7	1.15.20	С	0 to 10	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<10	<50	ND	<60
S-8	1.15.20	С	0 to 9	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.6	<48	ND	<60
S-9	1.15.20	С	0 to 7	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.8	<49	ND	<60
S-10	1.15.20	С	9	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<10	<50	ND	<60
S-11	1.15.20	С	0 to 5	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.5	<47	ND	<60
S-12	1.15.20	С	0 to 7	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.4	<47	ND	<60
S-13	1.15.20	С	0 to 9	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.3	<46	ND	<60
S-14	1.15.20	С	0 to 10	<0.024	<0.047	<0.047	<0.095	ND	<4.7	12	<49	12	100
S-15	1.17.20	С	14	<0.074	<0.15	<0.15	<0.30	ND	<15	<9.5	<48	ND	590
S-17	1.17.20	С	10 to 14	<0.015	<0.030	<0.030	<0.059	ND	<3.0	<9.7	<48	ND	140
S-18	1.17.20	С	10 to 14	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.9	<49	ND	210
S-19	1.17.20	С	10 to 14	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.8	<49	ND	95
S-20	1.17.20	С	10 to 14	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.3	<46	ND	150
S-21	1.23.20	С	15.5	<0.083	<0.17	<0.17	<0.33	ND	<17	<9.1	<46	ND	230

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

ND = Not Detected above the Practical Quantitation Limits or Reporting 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



APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation



January 21, 2020

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

RE: Lateral C-7 Loop Jan 2020

OrderNo.: 2001611

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 14 sample(s) on 1/16/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-	1		
Project: Lateral C-7 Loop Jan 2020	Collection Date: 1/15/2020 1:00:00 PM						
Lab ID: 2001611-001	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	CAS	
Chloride	140	60	mg/Kg	20	1/20/2020 1:16:42 PM	49911	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM	
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	1/17/2020 10:58:53 AM	49879	
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/17/2020 10:58:53 AM	49879	
Surr: DNOP	145	55.1-146	%Rec	1	1/17/2020 10:58:53 AM	49879	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/17/2020 10:32:02 AM	49873	
Surr: BFB	81.3	66.6-105	%Rec	1	1/17/2020 10:32:02 AM	49873	
EPA METHOD 8021B: VOLATILES					Analyst:	NSB	
Benzene	ND	0.024	mg/Kg	1	1/17/2020 10:32:02 AM	49873	
Toluene	ND	0.047	mg/Kg	1	1/17/2020 10:32:02 AM	49873	
Ethylbenzene	ND	0.047	mg/Kg	1	1/17/2020 10:32:02 AM	49873	
Xylenes, Total	ND	0.095	mg/Kg	1	1/17/2020 10:32:02 AM	49873	
Surr: 4-Bromofluorobenzene	91.3	80-120	%Rec	1	1/17/2020 10:32:02 AM	49873	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 18

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-2 Collection Date: 1/15/2020 1:05:00 PM						
Project: Lateral C-7 Loop Jan 2020 Lab ID: 2001611-002	Matrix: SOIL	,			15/2020 1:05:00 PM 16/2020 7:50:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	140	60	mg/Kg	20	1/20/2020 1:53:55 PM	49911	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/17/2020 11:08:02 AM	49879	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 11:08:02 AM	49879	
Surr: DNOP	104	55.1-146	%Rec	1	1/17/2020 11:08:02 AM	49879	
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 10:55:24 AM	49873	
Surr: BFB	80.4	66.6-105	%Rec	1	1/17/2020 10:55:24 AM	49873	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	1/17/2020 10:55:24 AM	49873	
Toluene	ND	0.048	mg/Kg	1	1/17/2020 10:55:24 AM	49873	
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 10:55:24 AM	49873	
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 10:55:24 AM	49873	
Surr: 4-Bromofluorobenzene	90.8	80-120	%Rec	1	1/17/2020 10:55:24 AM	49873	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM Project: Lateral C-7 Loop Jan 2020	Client Sample ID: S-3 Collection Date: 1/15/2020 1:10:00 PM						
Lab ID: 2001611-003	Matrix: SOIL				16/2020 7:50:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	60	mg/Kg	20	1/20/2020 2:06:20 PM	49911	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/17/2020 11:17:06 AM	49879	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/17/2020 11:17:06 AM	49879	
Surr: DNOP	106	55.1-146	%Rec	1	1/17/2020 11:17:06 AM	49879	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/17/2020 2:27:17 PM	49873	
Surr: BFB	83.5	66.6-105	%Rec	1	1/17/2020 2:27:17 PM	49873	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	1/17/2020 2:27:17 PM	49873	
Toluene	ND	0.050	mg/Kg	1	1/17/2020 2:27:17 PM	49873	
Ethylbenzene	ND	0.050	mg/Kg	1	1/17/2020 2:27:17 PM	49873	
Xylenes, Total	ND	0.099	mg/Kg	1	1/17/2020 2:27:17 PM	49873	
Surr: 4-Bromofluorobenzene	93.0	80-120	%Rec	1	1/17/2020 2:27:17 PM	49873	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM			ient Sample I					
Project: Lateral C-7 Loop Jan 2020	Collection Date: 1/15/2020 1:15:00 PM							
Lab ID: 2001611-004	Matrix: SOIL		Received Da	te: 1/1	16/2020 7:50:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	1/20/2020 2:18:44 PM	49911		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/17/2020 11:26:14 AN	49879		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 11:26:14 AM	49879		
Surr: DNOP	104	55.1-146	%Rec	1	1/17/2020 11:26:14 AN	49879		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 2:50:34 PM	49873		
Surr: BFB	82.4	66.6-105	%Rec	1	1/17/2020 2:50:34 PM	49873		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	1/17/2020 2:50:34 PM	49873		
Toluene	ND	0.048	mg/Kg	1	1/17/2020 2:50:34 PM	49873		
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 2:50:34 PM	49873		
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 2:50:34 PM	49873		
Surr: 4-Bromofluorobenzene	93.1	80-120	%Rec	1	1/17/2020 2:50:34 PM	49873		

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 4 of 18

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM			ient Sample II					
Project: Lateral C-7 Loop Jan 2020	Collection Date: 1/15/2020 1:20:00 PM							
Lab ID: 2001611-005	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	110	60	mg/Kg	20	1/20/2020 2:31:09 PM	49911		
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/17/2020 11:35:22 AM	49879		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2020 11:35:22 AM	49879		
Surr: DNOP	106	55.1-146	%Rec	1	1/17/2020 11:35:22 AM	49879		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/17/2020 3:14:08 PM	49873		
Surr: BFB	81.5	66.6-105	%Rec	1	1/17/2020 3:14:08 PM	49873		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	1/17/2020 3:14:08 PM	49873		
Toluene	ND	0.050	mg/Kg	1	1/17/2020 3:14:08 PM	49873		
Ethylbenzene	ND	0.050	mg/Kg	1	1/17/2020 3:14:08 PM	49873		
Xylenes, Total	ND	0.099	mg/Kg	1	1/17/2020 3:14:08 PM	49873		
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	1/17/2020 3:14:08 PM	49873		

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM			ient Sample II			
Project: Lateral C-7 Loop Jan 2020 Lab ID: 2001611-006	Matrix: SOIL	,			15/2020 1:25:00 PM 16/2020 7:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	230	60	mg/Kg	20	1/20/2020 2:43:33 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/17/2020 1:45:38 PM	49879
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	1/17/2020 1:45:38 PM	49879
Surr: DNOP	105	55.1-146	%Rec	1	1/17/2020 1:45:38 PM	49879
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Surr: BFB	82.8	66.6-105	%Rec	1	1/17/2020 3:37:35 PM	49873
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Toluene	ND	0.048	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Surr: 4-Bromofluorobenzene	93.1	80-120	%Rec	1	1/17/2020 3:37:35 PM	49873

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM Project: Lateral C-7 Loop Jan 2020			ient Sample]					
Lab ID: 2001611-007	Collection Date: 1/15/2020 1:30:00 PM Matrix: SOIL Received Date: 1/16/2020 7:50:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	1/20/2020 3:20:46 PM	49911		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/17/2020 11:53:38 AM	49879		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/17/2020 11:53:38 AM	49879		
Surr: DNOP	107	55.1-146	%Rec	1	1/17/2020 11:53:38 AM	49879		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/17/2020 4:24:31 PM	49873		
Surr: BFB	84.2	66.6-105	%Rec	1	1/17/2020 4:24:31 PM	49873		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	1/17/2020 4:24:31 PM	49873		
Toluene	ND	0.049	mg/Kg	1	1/17/2020 4:24:31 PM	49873		
Ethylbenzene	ND	0.049	mg/Kg	1	1/17/2020 4:24:31 PM	49873		
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 4:24:31 PM	49873		
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	1/17/2020 4:24:31 PM	49873		

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM		C	ient Sample I	D: S-	8			
Project: Lateral C-7 Loop Jan 2020	Collection Date: 1/15/2020 1:35:00 PM							
Lab ID: 2001611-008	Matrix: SOIL		Received Dat	te: 1/1	16/2020 7:50:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	1/20/2020 3:33:11 PM	49911		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/17/2020 12:02:52 PM	49879		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 12:02:52 PM	49879		
Surr: DNOP	86.8	55.1-146	%Rec	1	1/17/2020 12:02:52 PM	49879		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/17/2020 4:48:04 PM	49873		
Surr: BFB	80.6	66.6-105	%Rec	1	1/17/2020 4:48:04 PM	49873		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	1/17/2020 4:48:04 PM	49873		
Toluene	ND	0.049	mg/Kg	1	1/17/2020 4:48:04 PM	49873		
Ethylbenzene	ND	0.049	mg/Kg	1	1/17/2020 4:48:04 PM	49873		
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 4:48:04 PM	49873		
Surr: 4-Bromofluorobenzene	92.1	80-120	%Rec	1	1/17/2020 4:48:04 PM	49873		

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM		Cl	ient Sample I	D: S-	9			
Project: Lateral C-7 Loop Jan 2020	Collection Date: 1/15/2020 1:40:00 PM							
Lab ID: 2001611-009	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	1/20/2020 3:45:36 PM	49911		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/17/2020 12:12:07 PM	49879		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/17/2020 12:12:07 PM	49879		
Surr: DNOP	87.5	55.1-146	%Rec	1	1/17/2020 12:12:07 PM	49879		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/17/2020 7:31:58 PM	49873		
Surr: BFB	81.0	66.6-105	%Rec	1	1/17/2020 7:31:58 PM	49873		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	1/17/2020 7:31:58 PM	49873		
Toluene	ND	0.049	mg/Kg	1	1/17/2020 7:31:58 PM	49873		
Ethylbenzene	ND	0.049	mg/Kg	1	1/17/2020 7:31:58 PM	49873		
Xylenes, Total	ND	0.098	mg/Kg	1	1/17/2020 7:31:58 PM	49873		
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	1/17/2020 7:31:58 PM	49873		

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM Project: Lateral C-7 Loop Jan 2020	Client Sample ID: S-10 Collection Date: 1/15/2020 1:45:00 PM						
Lab ID: 2001611-010	Matrix: SOIL				16/2020 7:50:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	60	mg/Kg	20	1/20/2020 3:58:00 PM	49911	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/17/2020 12:21:22 PM	49879	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/17/2020 12:21:22 PM	49879	
Surr: DNOP	85.7	55.1-146	%Rec	1	1/17/2020 12:21:22 PM	49879	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 7:55:16 PM	49873	
Surr: BFB	82.8	66.6-105	%Rec	1	1/17/2020 7:55:16 PM	49873	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	1/17/2020 7:55:16 PM	49873	
Toluene	ND	0.048	mg/Kg	1	1/17/2020 7:55:16 PM	49873	
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 7:55:16 PM	49873	
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 7:55:16 PM	49873	
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	1/17/2020 7:55:16 PM	49873	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM Project: Lateral C-7 Loop Jan 2020			ient Sample II		11 5/2020 1:50:00 PM	
Project: Lateral C-7 Loop Jan 2020 Lab ID: 2001611-011	Matrix: SOIL				16/2020 7:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	1/20/2020 4:10:25 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/17/2020 12:30:35 PM	49879
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2020 12:30:35 PM	49879
Surr: DNOP	89.0	55.1-146	%Rec	1	1/17/2020 12:30:35 PM	49879
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Surr: BFB	81.6	66.6-105	%Rec	1	1/17/2020 8:18:37 PM	49873
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Toluene	ND	0.048	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Surr: 4-Bromofluorobenzene	94.2	80-120	%Rec	1	1/17/2020 8:18:37 PM	49873

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

RL Reporting Limit Page 11 of 18

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM Project: Lateral C-7 Loop Jan 2020	Client Sample ID: S-12 Collection Date: 1/15/2020 1:55:00 PM						
Lab ID: 2001611-012	Matrix: SOIL				16/2020 7:50:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	60	mg/Kg	20	1/20/2020 4:22:50 PM	49911	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/17/2020 12:39:51 PM	49879	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2020 12:39:51 PM	49879	
Surr: DNOP	85.7	55.1-146	%Rec	1	1/17/2020 12:39:51 PM	49879	
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 8:41:54 PM	49873	
Surr: BFB	79.5	66.6-105	%Rec	1	1/17/2020 8:41:54 PM	49873	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	1/17/2020 8:41:54 PM	49873	
Toluene	ND	0.048	mg/Kg	1	1/17/2020 8:41:54 PM	49873	
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 8:41:54 PM	49873	
Xylenes, Total	ND	0.096	mg/Kg	1	1/17/2020 8:41:54 PM	49873	
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	1/17/2020 8:41:54 PM	49873	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-13							
Project: Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 2:00:00 PM			
Lab ID: 2001611-013	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM			
Analyses	Result	RL Qual Units		DF Date Analyzed		Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	1/20/2020 5:38:59 PM	49925		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/17/2020 12:49:03 PM	49879		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/17/2020 12:49:03 PM	49879		
Surr: DNOP	85.8	55.1-146	%Rec	1	1/17/2020 12:49:03 PM	49879		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/17/2020 9:05:10 PM	49873		
Surr: BFB	79.3	66.6-105	%Rec	1	1/17/2020 9:05:10 PM	49873		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.023	mg/Kg	1	1/17/2020 9:05:10 PM	49873		
Toluene	ND	0.047	mg/Kg	1	1/17/2020 9:05:10 PM	49873		
Ethylbenzene	ND	0.047	mg/Kg	1	1/17/2020 9:05:10 PM	49873		
Xylenes, Total	ND	0.093	mg/Kg	1	1/17/2020 9:05:10 PM	49873		
Surr: 4-Bromofluorobenzene	91.8	80-120	%Rec	1	1/17/2020 9:05:10 PM	49873		

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-14						
Project: Lateral C-7 Loop Jan 2020 Lab ID: 2001611-014	Collection Date: 1/15/2020 2:05:00 PM Matrix: SOIL Received Date: 1/16/2020 7:50:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	100	60	mg/Kg	20	1/20/2020 5:51:20 PM	49925	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	12	9.9	mg/Kg	1	1/17/2020 12:58:17 PM	49879	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/17/2020 12:58:17 PM	49879	
Surr: DNOP	90.8	55.1-146	%Rec	1	1/17/2020 12:58:17 PM	49879	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/17/2020 9:28:26 PM	49873	
Surr: BFB	97.1	66.6-105	%Rec	1	1/17/2020 9:28:26 PM	49873	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.024	mg/Kg	1	1/17/2020 9:28:26 PM	49873	
Toluene	ND	0.047	mg/Kg	1	1/17/2020 9:28:26 PM	49873	
Ethylbenzene	ND	0.047	mg/Kg	1	1/17/2020 9:28:26 PM	49873	
Xylenes, Total	ND	0.095	mg/Kg	1	1/17/2020 9:28:26 PM	49873	
Surr: 4-Bromofluorobenzene	94.1	80-120	%Rec	1	1/17/2020 9:28:26 PM	49873	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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QC SUMMARY REPORT Hall

L		WO#:	2001611
Hall Env	vironmental Analysis Laboratory, Inc.		21-Jan-20
Client:	ENSOLUM		

Project: Lateral	C-7 Loop Jan 2020	
Sample ID: MB-49911	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 49911	RunNo: 65902
Prep Date: 1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264169 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5	
Sample ID: LCS-49911	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 49911	RunNo: 65902
Prep Date: 1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264170 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00	0 93.3 90 110
Sample ID: MB-49925	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 49925	RunNo: 65933
Prep Date: 1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264389 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5	
Sample ID: LCS-49925	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 49925	RunNo: 65933
Prep Date: 1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264390 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00	0 94.4 90 110

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	SOLUM eral C-7 Loop Ja	an 2020								
Sample ID: LCS-49879	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	0ate: 1/	17/2020	S	SeqNo: 2	262125	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.1		5.000		81.9	55.1	146			
Sample ID: MB-49879	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D)ate: 1/	17/2020	S	SeqNo: 2	262126	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MR	RO) ND	50								
Surr: DNOP	10		10.00		100	55.1	146			

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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2001611

21-Jan-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

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	WO#:	2001611	
nental Analysis Laboratory, Inc.		21-Jan-20	

Client:ENSOLProject:Lateral (UM C-7 Loop Jan 2020	
Sample ID: mb-49873	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 49873	RunNo: 65896
Prep Date: 1/16/2020	Analysis Date: 1/17/2020	SeqNo: 2262859 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 860 1000	86.4 66.6 105
Sample ID: Ics-49873	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 49873	RunNo: 65896
Prep Date: 1/16/2020	Analysis Date: 1/17/2020	SeqNo: 2262860 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 97.7 80 120
Surr: BFB	990 1000	99.0 66.6 105
Sample ID: mb-49874	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 49874	RunNo: 65896
Prep Date: 1/16/2020	Analysis Date: 1/17/2020	SeqNo: 2262883 Units: %Rec
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	830 1000	83.1 66.6 105
Sample ID: Ics-49874	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 49874	RunNo: 65896
Prep Date: 1/16/2020	Analysis Date: 1/17/2020	SeqNo: 2262884 Units: %Rec
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	870 1000	87.0 66.6 105

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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

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	WO#:	2001611
ry, Inc.		21-Jan-20

Client: ENSOL	UM								
Project: Lateral (C-7 Loop Jan 2020								
Sample ID: mb-49873	SampType: ME	3LK	Tes	tCode: EF	'A Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 498	873	R	RunNo: 65	5896				
Prep Date: 1/16/2020	Analysis Date: 1/	17/2020	S	SeqNo: 22	262911	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	0.99	1.000		99.0	80	120			
Sample ID: mb-49874	SampType: ME	3LK	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 498	874	F	RunNo: 65	5896				
Prep Date: 1/16/2020	Analysis Date: 1/	17/2020	S	SeqNo: 22	262935	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96	1.000		96.4	80	120			
Sample ID: LCS-49873	SampType: LC	;S	Tes	tCode: EF	'A Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 498	873	F	RunNo: 65	5896				
Prep Date: 1/16/2020	Analysis Date: 1/	17/2020	S	SeqNo: 22	262948	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96 0.025	1.000	0	95.7	80	120			
Toluene	0.96 0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.96 0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9 0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	0.98	1.000		98.2	80	120			
Sample ID: LCS-49874	SampType: LC	S	Tes	tCode: EF	'A Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 498	874	R	RunNo: 65	5896				
Prep Date: 1/16/2020	Analysis Date: 1/	17/2020	S	SeqNo: 22	262949	Units: %Red	;		
						LP - L L			0
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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ENVIRONMENTAL ANALYSIS LABORATORY <i>TEL: 505-345-397.</i>		l Analysis Laboratory 4901 Hawkins NE puquerque, NM 87109 5 FAX: 505-345-4107 allenvironmental.com			Sample Log-In Check List			
Client Name: ENSOLUM AZTEC	Work Order Number:	200161	1		RcptNo: 1			
Received By: Desiree Dominguez	1/16/2020 7:50:00 AM		Ţ	Pz				
Completed By: Isaiah Ortiz	1/16/2020 8:32:53 AM			In	OX			
Reviewed By: YG 1/16/20								
Chain of Custody								
1. Is Chain of Custody sufficiently complete?		Yes 🖌	•	No 🗌	Not Present			
2. How was the sample delivered?		<u>Courier</u>						
Log In			_1					
3. Was an attempt made to cool the samples?		Yes 🗸	2	No 🗌	NA			
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🔽		No 🗌				
5. Sample(s) in proper container(s)?		Yes 🔽	•	No 🗌				
6. Sufficient sample volume for indicated test(s)?		Yes 🔽)	No 🗌				
7. Are samples (except VOA and ONG) properly p	preserved?	Yes 🗸	1	No 🗌				
8. Was preservative added to bottles?		Yes 🗌]	No 🔽	NA 🗌			
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA?	Yes 🗌		No 🗌	NA 🗹	/		
10. Were any sample containers received broken?		Yes 🗌]	No 🔽	# of preserved			
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽		No 🗌		unless noted)		
12. Are matrices correctly identified on Chain of Cu	stody?	Yes 🗸		No 🗌	Adjusted?			
13. Is it clear what analyses were requested?		Yes 🗸		No 🗌	10	11/20		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸		No 🗌	Checked by: JK	-1116/20		
Special Handling (if applicable)								
15. Was client notified of all discrepancies with this	s order?	Yes]	No 🗌	NA 🗹			
Person Notified:	Date:		Na ay an	-	1			
By Whom:	Via:	eMail	Phone	🗌 Fa	x 🔲 In Person			
Regarding:								
Client Instructions:								
16. Additional remarks:								
17. Cooler Information								
Cooler No Temp °C Condition Seal	Intact Seal No S	Seal Date	Sigr	ed By				

Page 1 of 1

Chain-of-Custody Record	Turn-Around Time: Z - DAY		
of Dient: Encolum, LLC	□ Standard X Rush	ANAI YSTS I ABORATOR	. >
		www.hallenvironment	
Mailing Address: b065,000 and Suitet	T LOUT (Jan	2626) 4901 Hawkins NE - Albuquerque, NM 87109	87109
	Project #: Seenates	Tel. 505-345-3975 Fax 505-345-4107 Analysis Boduest	1/29/20 L01
	Project Manager: V Stat 20 C	¢ 	20 8.
QA/QC Package:		SW SW2 SB's MRC	:14:2
Image: Standard Image: Level 4 (Full Validation)		0211 0211 50 \	
Ac	Sampler: Riverchilly	626 1085 1095 1095 1095 1095 1095 1095 1095 109	
	XQ.	O5 8/8/ 07 00 3, 1 3, 1 1 3, 1 (Pr	0
EDD (Type)	# of Coolers: \		NL
	Cooler Temp(including cF): 3.0 - 0.0 + 3.0° c	TM Pation	1010
Date Time Matrix Sample Name	Container Preservative HEAL No Type and # Type	BTEX / TPH:80 8081 Pe 8081 Pe RCRA 8 8260 (V 8270 (S 8270 (S	ИЭ
5	1001	XXIO	
1/15/20 1305 S S-2		CZ XX I I I I I X	X
1/15/20 1310 S - 3			
1/15/20 1315 5 5-4	Iryan cool -0		
11/5/20 1320 5 5-5	1x42Jur COOL	OS XX	
11520 1325 S S-6	1x402 Sur Cool -0	× × × 90	
1/15/20 1330 S S-7	1 * 402 345 600 -0	X X LOO	
115/20 1335 S S-8	1x402 Dar COOL - C	X X 400	
1115/201346 S S-9	1×412 Sor COOI - C	XX POO	
(115/b) 1345 S S-10	1×402 Jur CODI	NO XX OIC	
1/1×120 1350 5 5-11	1×462 Jar COOL - (
1	1×42Jur COD/ ~(
		Remarks:	(Coodel)
2	Parolind hur Visit Data Ta	233	Pa
Visi 20 1 8/1	rowfier 1/10/20	-244UQA	nge 56
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredit	ted laboratories.	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	

	. >		C D: 1(0/29/	202	0 8:14:21 /	IM											Pa	nge 57 o
	AALL ENVIKONMENTAL ANALYSTS LABORATORY	+4	<pre>www.namentynonintential.com ns NE - Albuquerque, NM 87109</pre>	10	Analysis	SMIS 402,40c (fn9sdA)	Presen ² , I	tals ,cOl, ,OV,	s Me sr, <i>N</i> (AO)	V) 0328 8270 (S Total Co								PM-TOM LOND (EPERD) PAY Vey - RESIJOUD	Non AFE - NUSSEI
			4901 Hawkins NE	Tel. 505-345-3975		ьСВ, ²) \) Я О К Ч 2808/	səpi ୨୪୨	15D(X	<pre>K</pre>						Remarks: 3-DAV	5
2-044	Rush		(220 (Jan 2020)	notes		er: ksummers	etills	2	3.0-0.0= 3.0°c	HEAL No.	× 210-	< h10- 10		A CONTRACTOR - INCOME AND A CONTRACTOR - INC	see of a distribution of the set of the property of the set of the			Date Time Re AL 1/15/20 1702	1/10/20
Turn-Around Time:	□ Standard	ini	Lateral (Project #: See		Project Manager: Ks	Sampler: 2000	# of Coolers: 1	Cooler Temp(including CF):	Container Preservative Type and # Type	1×402 JUN COOL	1.8						Received by: Via:	Townson
Chain-of-Custody Record	, r		Mailing Address: 6005, 200 Grande SUMA	Stulo	and the second se	Project Manag				Sample Name	5-13	41-2	5					ed by:	rulat
Chain-of-Cu	Client: Finsolum, / LC		g Address: (000 5	Aetec, NM 8.		email or Fax#: אאשראיז שאישראיז שאישראיז שאישראיז מארטער אישראיז מערער מערעיד מערעיד מערעיד מערעיד מערעיד מערעי מערעיד מערעיד		vpe)		Time Matrix	1/15/20/400 3	a rues s						Date: Time: Relinguished by: USD 1702 AN	L18)
	Client		Mailin	A	Phone #:	email QA/QC				Date	1115/20	(IK/SI)	-					Date:	1/15/20



January 21, 2020

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

RE: Lateral C-7 Loop Jan 2020

OrderNo.: 2001608

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/16/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001608

Date Reported: 1/21/2020

CLIENT: ENSOLUM Project: Lateral C-7 Loop Jan 2020			ient Sample		P-1 15/2020 2:10:00 PM	
Lab ID: 2001608-001	Matrix: SOIL				16/2020 7:50:00 AM	
Analyses	Result	RL	Qual Unit	s DF	F Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/k		1/18/2020 5:32:40 AM	49898
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/k		1/17/2020 10:22:26 AM	49879
Motor Oil Range Organics (MRO)	ND	48	mg/k	ig 1	1/17/2020 10:22:26 AM	49879
Surr: DNOP	117	55.1-146	%Re	c 1	1/17/2020 10:22:26 AM	49879
EPA METHOD 8015D: GASOLINE RANGE	i i				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/k		1/17/2020 12:06:27 PM	49873
Surr: BFB	81.3	66.6-105	%Re	c 1	1/17/2020 12:06:27 PM	49873
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/k		1/17/2020 12:06:27 PM	49873
Toluene	ND	0.048	mg/k	ig 1	1/17/2020 12:06:27 PM	49873
Ethylbenzene	ND	0.048	mg/k	g 1	1/17/2020 12:06:27 PM	49873
Xylenes, Total	ND	0.096	mg/k		1/17/2020 12:06:27 PM	49873
Surr: 4-Bromofluorobenzene	92.6	80-120	%Re	c 1	1/17/2020 12:06:27 PM	49873

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 7

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001608

Date Reported: 1/21/2020

CLIENT: ENSOLUM		Cl	ient Sample I	D: SP	-2	
Project: Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	5/2020 2:15:00 PM	
Lab ID: 2001608-002	Matrix: SOIL		Received Dat	e: 1/1	6/2020 7:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	61	mg/Kg	20	1/20/2020 5:00:04 PM	49898
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/17/2020 10:49:45 AN	49879
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/17/2020 10:49:45 AN	49879
Surr: DNOP	105	55.1-146	%Rec	1	1/17/2020 10:49:45 AN	49879
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Surr: BFB	81.7	66.6-105	%Rec	1	1/17/2020 1:16:46 PM	49873
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Toluene	ND	0.050	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Ethylbenzene	ND	0.050	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Xylenes, Total	ND	0.10	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	1/17/2020 1:16:46 PM	49873

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
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- PQL Practical Quanitative Limit
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- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT ł

L.		tal Analysis Laborato	ory, Inc.	WO#:	2001608 21-Jan-20
Client: Project:	ENSOI Lateral	LUM C-7 Loop Jan 2020			
Sample ID: MI Client ID: PE		SampType: mblk Batch ID: 49898	TestCode: EPA Method 300.0: Anions RunNo: 65885		

Prep Date: 1/17/2020	Analysis Date: 1/17/2020	SeqNo: 2262633	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5		
Sample ID: LCS-49898	SampType: Ics	TestCode: EPA Method	300.0: Anions
Client ID: LCSS	Batch ID: 49898	RunNo: 65885	
Prep Date: 1/17/2020	Analysis Date: 1/17/2020	SeqNo: 2262634	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00	0 92.6 90	110
Sample ID: MB-49898	SampType: mblk	TestCode: EPA Method	300.0: Anions
Client ID: PBS	Batch ID: 49898	RunNo: 65902	
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2264199	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5		
Sample ID: LCS-49898	SampType: Ics	TestCode: EPA Method	300.0: Anions
Client ID: LCSS	Batch ID: 49898	RunNo: 65902	
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2264200	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00	0 92.7 90	110

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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QC SUMMARY REPORT

4.4

Page 62 of 96		Page	<i>62</i>	of 96
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Hall Environmenta			aborat	ory, Inc.					WO#:	2001608 21-Jan-20
Client:ENSOLUProject:Lateral C	JM -7 Loop Ja	in 2020								
Sample ID: 2001608-001AMS	SampT	уре: М	3	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SP-1	Batch	n ID: 49	879	R	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262113	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.9	49.36	2.471	96.5	47.4	136			

89.1

55.1

146

4.936

Sample ID: 2001608-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SP-1	Batch	ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262114	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.5	47.30	2.471	95.7	47.4	136	4.85	43.4	
Surr: DNOP	4.1		4.730		87.7	55.1	146	0	0	
Sample ID: LCS-49879	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262125	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.1		5.000		81.9	55.1	146			
Sample ID: MB-49879	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262126	Units: mg/k	٢g		
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	10		10.00		100	55.1	146			

Qualifiers:

Surr: DNOP

- 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2001608
nental Analysis Laboratory, Inc.		21-Jan-20

Client: ENSOLU									
-	C-7 Loop Jan 2020								
Sample ID: mb-49873	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 49	873	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis Date: 1,	/17/2020	S	SeqNo: 22	262859	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 860	1000		86.4	66.6	105			
Sample ID: Ics-49873	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 49	873	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis Date: 1	/17/2020	S	SeqNo: 2	262860	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	25.00	0	97.7	80	120			
Surr: BFB	990	1000		99.0	66.6	105			
Sample ID: 2001608-001ams	SampType: M	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: SP-1	Batch ID: 49	873	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis Date: 1	/17/2020	S	SeqNo: 22	262862	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0	24.78	0	101	69.1	142			
Surr: BFB	920	991.1		92.5	66.6	105			
Sample ID: 2001608-001ams	d SampType: M	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: SP-1	Batch ID: 49	873	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis Date: 1,	/17/2020	5	SeqNo: 22	262863	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 4.8	23.97	0	104	69.1	142	0.813	20	
Surr: BFB	880	958.8		91.7	66.6	105	0	0	
Sample ID: mb-49874	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 49	874	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis Date: 1	/17/2020	S	SeqNo: 22	262883	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	830	1000		83.1	66.6	105			
	SampType: LO	cs	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Sample ID: Ics-49874				RunNo: 6	5896				
Client ID: LCSS	Batch ID: 49	874	r	. U.	0000				
•	Batch ID: 49 Analysis Date: 1			SeqNo: 2		Units: %Red	;		
Client ID: LCSS		/17/2020		SeqNo: 22		Units: %Rec 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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Ethylbenzene

Xylenes, Total

QC SUMMARY REPORT Hall Environme

0.046

0.092

0.9225

2.768

1.0

3.0

			y515 I		ory, Inc.						21-Jan-20
Client: Project:	ENSOLU Lateral C	JM -7 Loop Ja	an 2020								
Sample ID:	mb-49873	Samp	Гуре: М	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 49	873	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis [Date: 1/	17/2020	5	SeqNo: 22	262911	Units: mg/l	٨g		
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-Bron	nofluorobenzene	0.99		1.000		99.0	80	120			
Sample ID:	2001608-002ams	Samp	Гуре: М	6	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	SP-2	Batc	h ID: 49	873	RunNo: 65896						
Prep Date:	1/16/2020	Analysis [Date: 1/	17/2020	S	SeqNo: 22	262915	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.024	0.9606	0	102	78.5	119			
Toluene		1.0	0.048	0.9606	0.01228	102	75.7	123			
Ethylbenzene		1.0	0.048	0.9606	0	104	74.3	126			
Xylenes, Total		3.0	0.096	2.882	0.01926	104	72.9	130			
Surr: 4-Bron	nofluorobenzene	0.91		0.9606		94.9	80	120			
Sample ID:	2001608-002amsd	I Samp	Гуре: М	SD	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Sample ID: Client ID:			Гуре: М h ID: 49			tCode: EF		8021B: Vola	tiles		
	SP-2		h ID: 49	873	F		5896	8021B: Vola Units: mg/ł			
Client ID:	SP-2	Batc	h ID: 49	873 /17/2020	F	RunNo: 6	5896			RPDLimit	Qual
Client ID: Prep Date:	SP-2	Batc Analysis [h ID: 49 Date: 1 /	873 /17/2020	F	RunNo: 6 SeqNo: 2	5896 262916	Units: mg/l	K g	RPDLimit 20	Qual

Surr: 4-Bromofluorobenzene	0.88	0.9225		95.2	80	120	0	0	
Sample ID: mb-49874	SampType:	/IBLK	TestC	Code: EPA M	ethod	8021B: Volat	iles		
Client ID: PBS	Batch ID: 4	9874	Ru	inNo: 65896					
Prep Date: 1/16/2020	Analysis Date:	1/17/2020	Se	qNo: 22629 3	35	Units: %Rec	;		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC Low	vLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96	1.000		96.4	80	120			
Sample ID: LCS-49873	SampType: L	CS	TestC	Code: EPA M	ethod	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 4	9873	Ru	inNo: 65896					
Prep Date: 1/16/2020	Analysis Date:	1/17/2020	Se	eqNo: 22629 4	48	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC Low	vLimit	HighLimit	%RPD	RPDLimit	Qual

0

0.01926

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 ND

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

108

108

74.3

72.9

126

130

0.219

0.243

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

Page 6 of 7

20

20

2001608

WO#:

Released	to	Imaging:	5/16/2022	1:26:13	PM

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ENSOLUM

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Lateral C-7 Loop Jan 2020

Sample ID: LCS-49873	SampType: LCS TestCode: EPA Method a				8021B: Volat	iles					
Client ID: LCSS	Batc	h ID: 49 8	873	RunNo: 65896							
Prep Date: 1/16/2020	Analysis E	Date: 1/	17/2020	5	SeqNo: 2	262948	Units: mg/K	ſg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.025	1.000	0	95.7	80	120				
Toluene	0.96	0.050	1.000	0	96.2	80	120				
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120				
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120				
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120				
Sample ID: LCS-49874	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batc	h ID: 49	874	F	RunNo: 6	5896					
Prep Date: 1/16/2020	Analysis E	Date: 1/	17/2020	S	SeqNo: 2	262949	Units: %Re	C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	80	120				

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

- Page 7 of 7

WO#:	2001608
	ATT A 0

21-Jan-20

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Laborat 4901 Hawkins Albuquerque, NM 87. 975 FAX: 505-345-4 v.hallenvironmental.c	NE 109 San 107	nple Log-In Ch	eck List
Client Name: ENSOLUM AZTEC	Work Order Num	ber: 2001608		RcptNo:	1
Received By: Desiree Dominguez	1/16/2020 7:50:00	AM	D2		
Completed By: Isaiah Ortiz	1/16/2020 8:22:09	AM	INC	¥	
Reviewed By: D M 1/14/20				,	
Chain of Custody					
1. Is Chain of Custody sufficiently complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes 🖌	No 🗌	NA	
 Advision of the state of the st					
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🖌	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test(s	i)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1/4	I" for AQ VOA?	Yes	No 🗌	NA 🔽	i
10. Were any sample containers received broke	en?	Yes	No 🗹	# of preserved bottles checked	/
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🗹	No 🗌	for pH:	12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		addul a
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	0 110/20
Special Handling (if applicable)			_		
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail Ph	ione 🗌 Fax	In Person	
Regarding: Client Instructions:			POUL VERSION OF THE PUBLIC CO		
16. Additional remarks:				Lan 1999 - 1999	
17. Cooler Information		0	0		
Cooler No Temp °C Condition S 1 3.0 Good Ye	eal Intact Seal No	Seal Date S	Signed By		

Page 1 of 1

Received by OCD: 10/29/202	0 8:14:21 AM		Page 67 of 96
HALL ENVIRONMENTAL ANALYSIS LABORATORY ANALYSIS LABORATORY www.hallenvironmental.com www.hallenvironmental.com www.hallenvironmental.com tww.hallenvironmental.com ANALYSIS LABORATORY Tel. 505-345-375 Fax 505-345-4107 Tel. 505-345-375 Fax 505-345-4107 Analysis Request	DB (Method 504.1) SMI2078 by 8310 or 8270SIMS SCRA 8 Metals S1, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 3260 (VOA) S270 (Semi-VOA) Total Coliform (Present/Absent) CDIA Coliform (Present/Absent)	3	PW -TOM LONG (EPDED) Pay Ley - EB21200 Non AFE - NUSSSI
	8081 Pesticides/8082 PCB's		ALL ALL
490 [°] Tel.	ГРН:8015D(GRO / DRO / MRO)		Remarks: 3-DAY Jurnourout
	BTEX -/ MTBE / TMB's (8021)	\times \times	Rem 201
Turn-Around Time: 3-0.4y Standard Kush 3-0.4y Project Name: [Lottesal C-7 Loop (Jan 2020) Project #: See notes	Project Manager: KSummerS Sampler: ZDep Chillun On Ice: X Yes Do # of Coolers: 1 Cooler Temp(Induding CF): 3.0 - 0.0 = 3.0° Container Preservative HEAL No.		Received by: Via: Date Time Mut WOUL 15/20 176 2 Received by: Via: Date Time . Same Courtier 1/16/20 7:So Intracted to other accredited laboratories. This serves as notice of this
Turn- Proje	Project Mi Sampler: On Ice: # of Coole Cooler Te Container	nx h	Received by: Received by:
Client: Ensolum/LLC Mailing Address: 600 S. 210 62urb Suitt A Phone #:	email or Fax#: <i>XSUMMER® ensolum</i> , <i>rom</i> F QA/QC Package: Standard	0 1410 5 5P-2 1415 5 5P-2	Date: Time: Relinquished by: Received by: Via: Date Time Remarks: PM Pm Cm Cng (EPD&D) NSp0 17b2 PM PM PM PM PM Cm (EPD&D) Date: Time: Relinquished by: No No PM PM Cm Cng (EPD&D) Date: Time: Relinquished by: No No PM PM Cm Cng (EPD&D) Date: Time: Relinquished by: No No PM PM PM Cm Cng (EPD&D) Date: Time: Relinquished by: No No PM PM PM No PM PM No PM PM PM No No PM No No



January 22, 2020

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

RE: Lateral C 7 Loop Jan 2020

OrderNo.: 2001729

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/18/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-15
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:10:00 AM
Lab ID:	2001729-001	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	590	60	mg/Kg	20	1/20/2020 11:12:37 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/20/2020 10:29:02 AM	49907
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/20/2020 10:29:02 AM	49907
Surr: DNOP	83.3	55.1-146	%Rec	1	1/20/2020 10:29:02 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	15	mg/Kg	5	1/20/2020 11:38:59 AM	G65910
Surr: BFB	85.2	66.6-105	%Rec	5	1/20/2020 11:38:59 AM	G65910
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.074	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Toluene	ND	0.15	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Ethylbenzene	ND	0.15	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Xylenes, Total	ND	0.30	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	5	1/20/2020 11:38:59 AM	B65910

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 10

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-16
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:15:00 AM
Lab ID:	2001729-002	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	670	60	mg/Kg	20	1/20/2020 11:25:01 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/20/2020 10:38:04 AM	49907
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2020 10:38:04 AM	49907
Surr: DNOP	81.4	55.1-146	%Rec	1	1/20/2020 10:38:04 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	2.9	mg/Kg	1	1/20/2020 12:02:24 PM	G65910
Surr: BFB	83.4	66.6-105	%Rec	1	1/20/2020 12:02:24 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.014	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Toluene	ND	0.029	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Ethylbenzene	ND	0.029	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Xylenes, Total	ND	0.058	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	1/20/2020 12:02:24 PM	B65910

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 2 of 10

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-17
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:20:00 AM
Lab ID:	2001729-003	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	140	60	mg/Kg	20	1/20/2020 11:37:25 AN	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/20/2020 10:47:10 AN	49907
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/20/2020 10:47:10 AN	49907
Surr: DNOP	78.9	55.1-146	%Rec	1	1/20/2020 10:47:10 AN	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	1/20/2020 12:25:52 PN	G65910
Surr: BFB	82.4	66.6-105	%Rec	1	1/20/2020 12:25:52 PN	G65910
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.015	mg/Kg	1	1/20/2020 12:25:52 PN	B65910
Toluene	ND	0.030	mg/Kg	1	1/20/2020 12:25:52 PN	B65910
Ethylbenzene	ND	0.030	mg/Kg	1	1/20/2020 12:25:52 PN	B65910
Xylenes, Total	ND	0.059	mg/Kg	1	1/20/2020 12:25:52 PN	B65910
Surr: 4-Bromofluorobenzene	94.9	80-120	%Rec	1	1/20/2020 12:25:52 PM	B65910

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	Client Sample ID: S-18			
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:25:00 AM		
Lab ID:	2001729-004	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM		

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	210	60	mg/Kg	20	1/20/2020 11:49:50 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/20/2020 10:56:14 AM	49907
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2020 10:56:14 AM	49907
Surr: DNOP	79.0	55.1-146	%Rec	1	1/20/2020 10:56:14 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/20/2020 12:49:24 PM	G65910
Surr: BFB	80.8	66.6-105	%Rec	1	1/20/2020 12:49:24 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Toluene	ND	0.034	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Ethylbenzene	ND	0.034	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Xylenes, Total	ND	0.068	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Surr: 4-Bromofluorobenzene	91.9	80-120	%Rec	1	1/20/2020 12:49:24 PM	B65910

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 4 of 10
Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-19
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:30:00 AM
Lab ID:	2001729-005	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	95	60	mg/Kg	20	1/20/2020 12:02:15 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/20/2020 11:05:21 AM	49907
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2020 11:05:21 AM	49907
Surr: DNOP	79.9	55.1-146	%Rec	1	1/20/2020 11:05:21 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/20/2020 1:12:57 PM	G65910
Surr: BFB	81.6	66.6-105	%Rec	1	1/20/2020 1:12:57 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Toluene	ND	0.038	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Ethylbenzene	ND	0.038	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Xylenes, Total	ND	0.076	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Surr: 4-Bromofluorobenzene	92.0	80-120	%Rec	1	1/20/2020 1:12:57 PM	B65910

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 5 of 10

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-20
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:35:00 AM
Lab ID:	2001729-006	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	CAS
Chloride	150	60	mg/Kg	20	1/20/2020 12:14:40 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/20/2020 11:14:27 AM	49907
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/20/2020 11:14:27 AN	49907
Surr: DNOP	78.8	55.1-146	%Rec	1	1/20/2020 11:14:27 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/20/2020 1:36:33 PM	G65910
Surr: BFB	80.9	66.6-105	%Rec	1	1/20/2020 1:36:33 PM	G65910
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.017	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Toluene	ND	0.035	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Ethylbenzene	ND	0.035	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Xylenes, Total	ND	0.070	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Surr: 4-Bromofluorobenzene	92.9	80-120	%Rec	1	1/20/2020 1:36:33 PM	B65910

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 6 of 10

Result

14

PQL

1.5

L.	Hall Environmental Analysis Laboratory, Inc.							WO#:	2001729 22-Jan-20	
Client: Project:	ENSO Latera	LUM l C 7 Loop Jan	2020							
Sample ID: MB- Client ID: PBS		SampTyp Batch II	De: mblk D: 49911		Code: EPA Method unNo: 65902	1 300.0: Anion	S			
Prep Date: 1/2	0/2020	Analysis Dat	ie: 1/20/2020	Se	eqNo: 2264169	Units: mg/K	g			
Analyte Chloride		Result ND	PQL SPK value 1.5	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sample ID: LCS	-49911	SampTyp	be: Ics	Test	Code: EPA Method	1 300.0: Anion	S			
Client ID: LCS	S	Batch II	D: 49911	Ru	unNo: 65902					
Prep Date: 1/2	0/2020	Analysis Dat	ie: 1/20/2020	Se	eqNo: 2264170	Units: mg/K	g			

SPK value SPK Ref Val %REC

0

15.00

LowLimit

90

93.3

HighLimit

110

Qualifiers:

Analyte

Chloride

- 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 ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 7 of 10

RPDLimit

Qual

%RPD

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2001729
conmental Analysis Laboratory, Inc.		22-Jan-20

Client:ENSOLProject:Lateral	UM C 7 Loop Jan 2020		
Sample ID: LCS-49907	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 49907	RunNo: 65901	
Prep Date: 1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2263253	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 10 50.00	0 100 63.9	124
Surr: DNOP	4.1 5.000	81.0 55.1	146
Sample ID: MB-49907	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 49907	RunNo: 65901	
Prep Date: 1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2263254	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	00 F FF 4	140
Surr: DNOP	8.0 10.00	80.5 55.1	146
Sample ID: LCS-49861	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 49861	RunNo: 65901	
Prep Date: 1/16/2020	Analysis Date: 1/21/2020	SeqNo: 2263856	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.3 5.000	107 55.1	146
Sample ID: LCS-49891	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 49891	RunNo: 65901	
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2263857	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.0 5.000	79.2 55.1	146
Sample ID: MB-49861	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 49861	RunNo: 65901	
Prep Date: 1/16/2020	Analysis Date: 1/21/2020	SeqNo: 2263860	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.00	108 55.1	146
Sample ID: MB-49891	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 49891	RunNo: 65901	
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2263861	Units: %Rec
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.9 10.00	89.4 55.1	146

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2001729	
nalysis Laboratory, Inc.		22-Jan-20	

Client: ENSOLU	UM						
Project: Lateral C	C 7 Loop Jan 2020						
Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: G65910	RunNo: 65910					
Prep Date:	Analysis Date: 1/20/2020	SeqNo: 2263618 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	770 1000	77.4 66.6 105					
Sample ID: 2.5ug gro lcsb	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G65910	RunNo: 65910					
Prep Date:	Analysis Date: 1/20/2020	SeqNo: 2263619 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Gasoline Range Organics (GRO)	25 5.0 25.00	0 98.0 80 120					
Surr: BFB	890 1000	88.5 66.6 105					
Sample ID: mb-49896	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 49896	RunNo: 65910					
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2263634 Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Surr: BFB	820 1000	82.0 66.6 105					
Sample ID: Ics-49896	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 49896	RunNo: 65910					
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2263635 Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Surr: BFB	880 1000	87.9 66.6 105					

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
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- 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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ENSOLUM

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Page	78	of 96

	WO#:	2001729	
Analysis Laboratory, Inc.		22-Jan-20	

Project: Lateral C	27 Loop Ja	an 2020								
Sample ID: rb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: B6	5910	F	RunNo: 6	5910				
Prep Date:	Analysis D	Date: 1/	20/2020	S	SeqNo: 22	263650	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	0.90		1.000		90.0	80	120			
Sample ID: 100ng btex lcsb	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: B6	5910	F	RunNo: 65910					
Prep Date:	Analysis D	Date: 1/	20/2020	S	SeqNo: 22	263651	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	80	120			
Sample ID: mb-49896	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 49	896	F	RunNo: 6	5910				
Prep Date: 1/17/2020	Analysis D	Date: 1/	20/2020	S	SeqNo: 22	263654	Units: %Red	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			
Sample ID: LCS-49896	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 49	896	F	RunNo: 6	5910				
Prep Date: 1/17/2020	Analysis D	Date: 1/	20/2020	S	SeqNo: 22	263655	Units: %Red	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	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

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 10 of 10

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environment At TEL: 505-345-39 Website: www.	490 Ibuquerq 75 FAX:	1 Hawkii ue, NM 8 505-345	ns NE 87109 -4107	Sample Log-In Check List				
Client Name: ENSOLUM AZTEC	Vork Order Numbe	er: 2001	729			RcptNo: 1			
	8/2020 10:00:00 / 8/2020 10:47:53 /			UL.	NA NA				
Chain of Custody									
1. Is Chain of Custody sufficiently complete?		Yes		No		Not Present			
2. How was the sample delivered?		Cour	177						
Log In									
3. Was an attempt made to cool the samples?		Yes		No		NA 🗌			
4. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes	\checkmark	No					
5. Sample(s) in proper container(s)?		Yes		No					
6. Sufficient sample volume for indicated test(s)?		Yes	\checkmark	No					
7. Are samples (except VOA and ONG) properly pre-	served?	Yes	\checkmark	No					
8. Was preservative added to bottles?		Yes		No	✓	NA 🗌			
9. Received at least 1 vial with headspace <1/4" for A	AQ VOA?	Yes		No		NA 🗹			
10. Were any sample containers received broken?		Yes		No	\checkmark				
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	\checkmark	No		# of preserved bottles checked for pH: (<2 or >12 dnless noted)			
12. Are matrices correctly identified on Chain of Custo	odv?	Yes		No	Π	Adjusted?			
13. Is it clear what analyses were requested?				No					
14. Were all holding times able to be met?		Yes		No		checked by: ENJM1/18/2			
(If no, notify customer for authorization.)		100				- GOFT/10/C			
<u>Special Handling (if applicable)</u>									
15. Was client notified of all discrepancies with this or	rder?	Yes		No		NA 🔽			
Person Notified:	Date:	and the second secon		CH RESERVED CONSIGNATION	-				
By Whom:	Via:	eMa	ail 🗌 F	Phone	Fax	In Person			
Regarding:		NACES HARVESTER		MUNICIPALITY IN CONTRACT					
Client Instructions:			ana ita ta'ny sita Ga	01-3-00-440-00-04-04-05-0					
16. Additional remarks:									
17. <u>Cooler Information</u>									
Cooler No Temp °C Condition Seal Int	tact Seal No	Seal Da	ate	Signed	Bv				

Receiv	ed by	0 C	D: 10)/29/	202	0 8:1	1:21 A	M														Page	80 of 96
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Time:	()	(5	See notes		ger:		6	X	-	including	Preservative Type	60	S	Ŭ	C	Co	0				Via:	credited
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Chain-of-Custody Record	w		000	STULO		KSUMMERSCIENSUMIAM		Az Compliance	□ Other			Matrix	S	S	S	S	S	5				Relinquished by, Relinquished by,	If hecessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.
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	Client:		Ma	A	Pho	em		Acc				Date	E I	E1/1	EI/1	E	1	E	-			Date: Date:	Contra de la contr



January 27, 2020

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

RE: Lateral C7 Loop Jan 2020

OrderNo.: 2001962

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/24/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001962

Date Reported: 1/27/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-21
Project:	Lateral C7 Loop Jan 2020		Collection Date: 1/23/2020 10:00:00 AM
Lab ID:	2001962-001	Matrix: MEOH (SOIL)	Received Date: 1/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	230	60	mg/Kg	20	1/24/2020 11:07:14 AM	50025
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/24/2020 9:41:22 AM	50023
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/24/2020 9:41:22 AM	50023
Surr: DNOP	110	55.1-146	%Rec	1	1/24/2020 9:41:22 AM	50023
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	17	mg/Kg	5	1/24/2020 10:10:57 AM	G66055
Surr: BFB	89.8	66.6-105	%Rec	5	1/24/2020 10:10:57 AM	G66055
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.083	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Toluene	ND	0.17	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Ethylbenzene	ND	0.17	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Xylenes, Total	ND	0.33	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	5	1/24/2020 10:10:57 AM	B66055

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 6

Prep Date: 1/24/2020

Analyte

Chloride

Analysis Date: 1/24/2020

PQL

1.5

15.00

Result

14

Hall Environmen	tal Analysis Laborat	ory, Inc.	WO#:	2001962 27-Jan-20
Client: ENSO Project: Lateral	LUM C7 Loop Jan 2020			
Sample ID: MB-50025 Client ID: PBS Prep Date: 1/24/2020	SampType: mblk Batch ID: 50025 Analysis Date: 1/24/2020	TestCode: EPA Method 300.0: Anions RunNo: 66053 SeqNo: 2269609 Units: mg/Kg		
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit HighLimit %RPE	RPDLimit	Qual
Sample ID: LCS-50025 Client ID: LCSS	SampType: I cs Batch ID: 50025	TestCode: EPA Method 300.0: Anions RunNo: 66053		

SPK value SPK Ref Val %REC LowLimit

0

SeqNo: 2269611

92.6

Units: mg/Kg

110

HighLimit

90

RPDLimit

Qual

%RPD

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 2 of 6

OC SUMMARY REPORT H

· ·		WO#: 2001962
Hall Env	ironmental Analysis Laboratory, Inc.	27-Jan-20
Client:	ENSOLUM	
Project:	Lateral C7 Loop Jan 2020	

	7 Loop Juli 2020								
Sample ID: MB-50023	SampType: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 500	023	R	RunNo: 66	6047				
Prep Date: 1/24/2020	Analysis Date: 1/2	24/2020	S	SeqNo: 22	268100	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	11	10.00		108	55.1	146			
Sample ID: LCS-50023	SampType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 500	023	R	RunNo: 66	6047				
Prep Date: 1/24/2020	Analysis Date: 1/2	24/2020	S	SeqNo: 22	268101	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52 10	50.00	0	104	63.9	124			
Surr: DNOP	5.1	5.000		103	55.1	146			
Sample ID: 2001962-001AMS	SampType: MS	5	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: S-21	Batch ID: 500	023	RunNo: 66047						
Prep Date: 1/24/2020	Analysis Date: 1/2	24/2020	S	SeqNo: 22	268174	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 9.4	46.77	0	108	47.4	136			
Surr: DNOP	5.1	4.677		109	55.1	146			
Sample ID: LCS-50000	SampType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: LCSS	Batch ID: 500	000	R	RunNo: 66	6058				
Prep Date: 1/23/2020	Analysis Date: 1/2	24/2020	S	SeqNo: 22	268880	Units: %Rec	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9	5.000		78.9	55.1	146			
Sample ID: MB-50000	SampType: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 500	000	R	RunNo: 66	6058				
Prep Date: 1/23/2020	Analysis Date: 1/2	24/2020	S	SeqNo: 22	268883	Units: %Rec	:		
									<u> </u>
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
- Н 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 S

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

RL Reporting Limit

Page 3 of 6

•

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	WO#:	2001962
nc.		27-Jan-20

Client: Project:	ENSOLUM Lateral C7 Loop J	an 2020								
Sample ID: mb1	Sam	рТуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID: PBS	Ва	tch ID: G6	6055	RunNo: 66055						
Prep Date:	Analysis	Date: 1/	24/2020	S	SeqNo: 2	268890	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio Surr: BFB	s (GRO) ND 840	5.0	1000		84.4	66.6	105			
Sample ID: 2.5ug	gro Icsb Sam	pType: LC	s	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID: LCSS	Ba	tch ID: G6	6055	F	RunNo: 6	6055				
Prep Date:	Analysis	Date: 1/	24/2020	S	SeqNo: 2	268891	Units: mg/Kg	9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	s (GRO) 24	5.0	25.00	0	95.5	80	120			
Surr: BFB	950		1000		95.1	66.6	105			
Sample ID: 200196	2-001amsd Sam	рТуре: М	SD	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID: S-21	Ba	tch ID: G6	6055	F	RunNo: 6	6055				
Prep Date:	Analysis	Date: 1/	24/2020	S	SeqNo: 2	268894	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	rs (GRO) 73	17	83.11	0	87.6	69.1	142	5.33	20	
Surr: BFB	3200		3325		94.9	66.6	105	0	0	
Sample ID: 200196	2-001ams Sam	рТуре: М	6	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID: S-21	Ва	tch ID: G6	6055	F	RunNo: 6	6066				
Prep Date:	Analysis	Date: 1/	25/2020	S	SeqNo: 2	268987	Units: mg/Kg	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	rs (GRO) 77	17	83.11	0	92.4	69.1	142			
Surr: BFB	3200		3325		96.1	66.6	105			
Sample ID: mb-50)28 Sam	рТуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID: PBS	Ba	tch ID: 50	028	F	RunNo: 6	6066				
Prep Date: 1/24/2	2020 Analysis	Date: 1/	25/2020	S	SeqNo: 2	268988	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		85.6	66.6	105			
Sample ID: Ics-500	28 Sam	pType: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	line Rang	e	
Client ID: LCSS		tch ID: 50	028		RunNo: 6			U		
Prep Date: 1/24/2		Date: 1/			SeqNo: 2		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
							3			

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 6

ENSOLUM

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2001962
alysis Laboratory, Inc.		27-Jan-20

Project:	Lateral C7	Loop Ja	n 2020									
Sample ID: mb1		SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS		Batch	h ID: B6	6055	R	unNo: 6						
Prep Date:		Analysis D	Date: 1/2	24/2020	S	eqNo: 2	268945	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-Bromofluoro	obenzene	0.95		1.000		95.0	80	120				
Sample ID: 100n	g btex lcs	SampT	ype: LC	S	Test	tCode: EF	PA Method	8021B: Volat	iles			
Client ID: LCSS	S	Batch	h ID: B6	6055	R	tunNo: 6	6055					
Prep Date:		Analysis D	Date: 1/2	24/2020	S	eqNo: 2	268946	Units: mg/k	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.89	0.025	1.000	0	89.1	80	120				
Toluene		0.87	0.050	1.000	0	87.4	80	120				
Ethylbenzene		0.83	0.050	1.000	0	83.2	80	120				
Xylenes, Total		2.5	0.10	3.000	0	83.0	80	120				
Surr: 4-Bromofluoro	obenzene	1.0		1.000		101	80	120				
Sample ID: 2001	962-001AMS	SampT	ype: MS	;	Test	tCode: EF	PA Method	8021B: Volat	iles			
Sample ID: 2001 Client ID: S-21	962-001AMS	•	ype: MS			tCode: Ef		8021B: Vola	iles			
·		•	h ID: B6	6055	R		6055	8021B: Volat Units: mg/K				
Client ID: S-21		Batch	h ID: B6	6055 24/2020	R	unNo: 6	6055			RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte		Batcl Analysis D	n ID: B6 Date: 1/ 2	6055 24/2020	R	tunNo: 66 GeqNo: 22	6055 268948	Units: mg/k	g	RPDLimit	Qual	
Client ID: S-21 Prep Date:		Batch Analysis D Result	n ID: B6 Date: 1/ 2 PQL	6055 24/2020 SPK value	R S SPK Ref Val	2unNo: 60 6eqNo: 22 %REC	6055 268948 LowLimit	Units: mg/k HighLimit	g	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene		Batch Analysis D <u>Result</u> 2.8	n ID: B6 Date: 1/ PQL 0.083	6055 24/2020 SPK value 3.325	R S SPK Ref Val 0	2unNo: 66 SeqNo: 22 %REC 85.1	6055 268948 LowLimit 78.5	Units: mg/k HighLimit 119	g	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene		Batch Analysis D Result 2.8 2.7	n ID: B6 Date: 1/ <u>PQL</u> 0.083 0.17	6055 24/2020 SPK value 3.325 3.325	R S SPK Ref Val 0 0	RunNo: 66 GeqNo: 22 %REC 85.1 82.1	6055 268948 LowLimit 78.5 75.7	Units: mg/K HighLimit 119 123	g	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene		Batch Analysis D Result 2.8 2.7 2.6	Date: 1/2 PQL 0.083 0.17 0.17	6055 24/2020 SPK value 3.325 3.325 3.325	R SPK Ref Val 0 0 0	eunNo: 66 6eqNo: 22 <u>%REC</u> 85.1 82.1 77.1	6055 268948 LowLimit 78.5 75.7 74.3	Units: mg/K HighLimit 119 123 126	g	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	bbenzene	Batch Analysis D Result 2.8 2.7 2.6 7.7 3.2	Date: 1/2 PQL 0.083 0.17 0.17	6055 24/2020 SPK value 3.325 3.325 3.325 9.974 3.325	R SPK Ref Val 0 0 0 0	2000 2020 2020 br>2020 2020 2020 br>2020 2	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80	Units: mg/k HighLimit 119 123 126 130	g %RPD	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro	bbenzene	Batch Analysis E 2.8 2.7 2.6 7.7 3.2 SampT	Date: 1 /2 Date: 1 /2 0.083 0.17 0.17 0.33	6055 24/2020 SPK value 3.325 3.325 3.325 9.974 3.325	R SPK Ref Val 0 0 0 0 0 Test	2000 2020 2020 br>2020 2020 2020 br>2020 2	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method	Units: mg/k HighLimit 119 123 126 130 120	g %RPD	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro	obenzene 962-001AMSD	Batch Analysis E 2.8 2.7 2.6 7.7 3.2 SampT	Date: 1/2 PQL 0.083 0.17 0.17 0.33 	6055 24/2020 3.325 3.325 3.325 9.974 3.325 9.974 3.325	R SPK Ref Val 0 0 0 0 Test R	RunNo: 66 6eqNo: 22 85.1 82.1 77.1 77.2 96.6 tCode: EF	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 6055	Units: mg/k HighLimit 119 123 126 130 120	iles	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro Sample ID: 2001 Client ID: S-21	obenzene 962-001AMSD	Batch Analysis D Result 2.8 2.7 2.6 7.7 3.2 SampT Batch	Date: 1/2 PQL 0.083 0.17 0.17 0.33 	6055 24/2020 3.325 3.325 3.325 9.974 3.325 5D 6055 24/2020	R SPK Ref Val 0 0 0 0 Test R	RunNo: 66 BeqNo: 22 %REC 85.1 82.1 77.1 77.2 96.6 RCOde: EF	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 6055	Units: mg/k HighLimit 119 123 126 130 120 8021B: Volat	iles	RPDLimit	Qual	
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro Sample ID: 2001 Client ID: S-21 Prep Date:	obenzene 962-001AMSD	Batch Analysis D 2.8 2.7 2.6 7.7 3.2 SampT Batch Analysis D	Date: 1/2 PQL 0.083 0.17 0.17 0.33 Type: MS on ID: B6 Date: 1/2	6055 24/2020 3.325 3.325 3.325 9.974 3.325 5D 6055 24/2020	R SPK Ref Val 0 0 0 0 Test R S	RunNo: 66 SeqNo: 22 %REC 85.1 82.1 77.1 77.2 96.6 Code: EF RunNo: 66 SeqNo: 22	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 6055 268949	Units: mg/k HighLimit 119 123 126 130 120 8021B: Volat Units: mg/k	3g %RPD tiles			
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro Sample ID: 2001 Client ID: S-21 Prep Date: Analyte	obenzene 962-001AMSD	Batch Analysis D 2.8 2.7 2.6 7.7 3.2 SampT Batch Analysis D Result	PQL 0.083 0.17 0.17 0.33 0.17 0.33 0.17 0.33 0.17 0.33 0.17 0.34 0.17	6055 24/2020 3.325 3.325 3.325 9.974 3.325 5D 6055 24/2020 SPK value	R SPK Ref Val 0 0 0 0 Test R SPK Ref Val	RunNo: 66 SeqNo: 22 %REC 85.1 82.1 77.1 77.2 96.6 RunNo: 66 SeqNo: 22 %REC	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 6055 268949 LowLimit	Units: mg/k HighLimit 119 123 126 130 120 8021B: Vola t Units: mg/k HighLimit	Sg %RPD iiles Sg %RPD	RPDLimit		
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro Sample ID: 2001 Client ID: S-21 Prep Date: Analyte Benzene	obenzene 962-001AMSD	Batch Analysis D 2.8 2.7 2.6 7.7 3.2 SampT Batch Analysis D Result 3.3	Date: 1/2 PQL 0.083 0.17 0.17 0.33 Type: MS n ID: B6 Date: 1/2 PQL 0.083	6055 24/2020 3.325 3.325 3.325 9.974 3.325 6055 24/2020 SPK value 3.325	R SPK Ref Val 0 0 0 0 Test SPK Ref Val 0	2000 2020 2020 br>2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 br>2020 2020	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 6055 268949 LowLimit 78.5	Units: mg/k HighLimit 119 123 126 130 120 8021B: Volat Units: mg/k HighLimit 119	5g %RPD tiles 5g %RPD 14.9	RPDLimit 20		
Client ID: S-21 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluoro Sample ID: 2001 Client ID: S-21 Prep Date: Analyte Benzene Toluene	obenzene 962-001AMSD	Batch Analysis D 2.8 2.7 2.6 7.7 3.2 SampT Batch Analysis D Result 3.3 3.2	PQL 0.083 0.17 0.17 0.33 Type: MS n ID: B6 Date: 1/2 PQL 0.083 0.17	6055 24/2020 3.325 3.325 3.325 9.974 3.325 6055 24/2020 SPK value 3.325 3.325	SPK Ref Val 0 0 0 0 0 Test SPK Ref Val 0 0	RunNo: 66 SeqNo: 22 %REC 85.1 82.1 77.1 77.2 96.6 RCOde: Ef RunNo: 66 SeqNo: 22 %REC 98.8 96.4	6055 268948 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 6055 268949 LowLimit 78.5 75.7	Units: mg/k HighLimit 119 123 126 130 120 8021B: Volat Units: mg/k HighLimit 119 123	2g %RPD tiles 2g %RPD 14.9 16.0	RPDLimit 20 20	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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	NSOLUM ateral C7 Loop Jan 20	20						
Sample ID: mb-50028	SampType	MBLK	TestCod	EPA Method	l 8021B: Volati	les		
Client ID: PBS	Batch ID:	50028	RunN	: 66066				
Prep Date: 1/24/202	0 Analysis Date:	1/25/2020	SeqN	2269004	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val %R	EC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenze	ne 0.97	1.000	9	6.9 80	120			
Sample ID: LCS-5002	8 SampType	LCS	TestCod	EPA Method	l 8021B: Volati	les		
Client ID: LCSS	Batch ID:	50028	RunN	5 66066				
Prep Date: 1/24/202	0 Analysis Date:	1/25/2020	SeqN	2269005	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val %R	EC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenze	ne 1.0	1.000		01 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

2001962

27-Jan-20

WO#:

ANAL	RONMENTAL YSIS RATORY	TEL: 505-345-3	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345 v.hallenvironmental	^{s NE} 7109 San 4107	Page Sample Log-In Check List					
Client Name:	ENSOLUM AZTE	C Work Order Num	ber: 2001962		RcptNo: 1					
Received By:	Isaiah Ortiz	1/24/2020 8:00:00	AM	I_0 I_0	¥					
Completed By:	Isaiah Ortiz	1/24/2020 8:13:29	AM	InC	X					
Reviewed By:	IO	1/24/2020								
Chain of Cus	stody									
1. Is Chain of C	sustody sufficiently of	complete?	Yes 🗹	No 🗌	Not Present					
2. How was the	sample delivered?		Courier							
<u>Log In</u> 3. Was an atter	npt made to cool th	e samples?	Yes 🗸	No 🗌						
4. Were all sam	ples received at a t	emperature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌					
5. Sample(s) in	proper container(s)	?	Yes 🔽	No 🗌						
6. Sufficient san	nple volume for indi	cated test(s)?	Yes 🔽	No 🗌						
7. Are samples	(except VOA and O	NG) properly preserved?	Yes 🗹	No 🗌						
8. Was preserva	ative added to bottle	s?	Yes	No 🔽	NA 🗌					
9. Received at le	east 1 vial with head	dspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	/				
10. Were any sa	mple containers rec	eived broken?	Yes	No 🗹	# of preserved bottles checked					
CONTRACTOR AND ADDRESS OF	ork match bottle lab ancies on chain of e		Yes 🖌	No 🗌	for pH:	unless noted)				
12. Are matrices	correctly identified	on Chain of Custody?	Yes 🖌	No 🗌	Adjusted?					
13. Is it clear what	at analyses were rec	uested?	Yes 🗹	No 🗌	1					
	ing times able to be sustomer for authori		Yes 🗹	No 🗌	Checked by: J2	1/24/20				
Special Hand	ling (if applical	ble)								
15. Was client n	otified of all discrep	ancies with this order?	Yes	No 🗌	NA 🗹					
Persor	Notified:	Date	: [an an an ann an an an an an an an an an						
By Wh	om:	Via:	🗌 eMail 🔲 F	Phone 🗌 Fax	In Person					
Regard	ling:		antonia estatopeto e verne suale gono. E nel en acceso estat							
	Instructions:				n 2 marting of a damage of a damage of a damage of the					
16. Additional re	emarks:									
17. <u>Cooler Info</u>	The second se				-					
Cooler No	o Temp °C Co	ndition Seal Intact Seal No	Seal Date	Signed By						

Page 1 of 1

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	VSTS LABORATOR	mo	Albuquerque, NM 87109	505-345-4107				3			_	2140	×												(CPROD)	NUNCER		n the analytical re
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Î		envire	Albu	Fax	Analysis	*OS '	^b Od	^{'7} O	N "		-	CI' E' B	_	+			-		2	1	1				Low .	Non AFF		vill be cl
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9	10010 Some Dau		0205 UDS (201 2-2)			STAM		14	0X-0		0 6F 2.1-	HEAL No.	100-				Coldina of the Insettle former on				sector and the sector sector sector				L Y	Date Time	en '/24/20 0800	e This serves as potice of
d Time:	d Rush			Seenetes	١	Project Manager: XS wmm22		Republic	Yes D-No	:	Cooler Temp(including CF): 2,1 -	41	1												Via:	Via:	- CEVENEN	accredited laboratorie
Turn-Around	□ Standard	Project Name:	Lateral	Project #: <		Project Man		Sampler:	303	oler	Cooler Tem	Container Type and #	1×40701												Received by:	Received by:	Q H	accentrated to other
Chain-of-Custody Record			Mailing Address: 600 5120 Grande Suite 4	01		email or Fax#: <u>KSuMMPLAS@UNSo/wm.com</u> 0AIOC Packane:	Level 4 (Full Validation)	Az Compliance				Sample Name	16-8												Day Man	ed by:	Mutter / Nove In	H sourcessur, amounts existing to Hall Environmental may be exponented to other accredited laboratorias. This serves as notice of this noscibility. Any sub-contracted data will be clearly notated on the analytical renord
-of-CL	Client: Ensolum.LLC	L.	s. 600 S.K	NIM 87410		KSumm		□ Az Co	□ Other			Matrix	s	-											Relinquished by	Relinquished by		dina analas di
hain	nsol		Addres	2CN	-	Fax#: ackade	lard	ation:	Q	EDD (Type)		Time	0000												Time:	Time:	1753	
Ö	Client:		Mailing /	Poter	Phone #:	email or Fax#: /	□ Standard	Accreditation:	DI NELAC			Date	cont odschi	1 1 1											Date: 7		123/20 1753	H



APPENDIX G

Regulatory Correspondence

From:	Smith, Cory, EMNRD
То:	Long, Thomas; Steve Austin
Cc:	Stone, Brian
Subject:	RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168
Date:	Thursday, January 23, 2020 7:41:58 AM

Tom,

Thank you for the notification, OCD approves the request to sample early.

OCD approval does not relive Enterprise of any other requirements imposed by other regulatory agencies.

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 <tjlong@eprod.com>
Sent: Thursday, January 23, 2020 7:38 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

This email is a follow up to our phone conversation this morning. Enterprise will be collecting the final soil sample today from the Lateral C-7 Loop excavation after we get it dug out. This sample will be analyzed for Chlorides only.

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



From: Long, Thomas
Sent: Tuesday, January 21, 2020 1:39 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; Steve Austin
<nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

Please find the attached site sketch and lab reports for the Lateral C-7 Loop. S-16 failed for chlorides. We will be excavating that area tomorrow and sampling as stated in the previous 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) tjlong@eprod.com



From: Long, Thomas
Sent: Tuesday, January 21, 2020 1:01 PM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory,

Sorry, they were collected the January 17, 2020. In addition, we will be sampling again at the Lateral C-7 excavation tomorrow, January 22, 2020 at 1:00 p.m. As that some of the sample results exceed Tier I standards. I will be sending all of lab results later today. 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) tjlong@eprod.com



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, January 21, 2020 7:54 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Tom,

Were samples collected on Friday or Saturday the 18th?

Thanks

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 <<u>tilong@eprod.com</u>>
Sent: Thursday, January 16, 2020 1:57 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

The email is to notify you that Enterprise will be collecting soil samples from the remaining areas of the Lateral C-7 Loop excavation that require sampling, tomorrow, January 18, 2020 at 10:00 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) tjlong@eprod.com



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Thursday, January 16, 2020 8:17 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Tom,

OCD approves Enterprises request to sample prior to the 48 notice.

Please include this approval in your final C-141.

OCD approval does not relieve Enterprise of any other requirements imposed by other regulatory agencies.

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: Thursday, January 16, 2020 7:40 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

This is a follow up to our phone conversation yesterday. Enterprise proceeded with collection of soil samples for laboratory analysis with verbal approval from NMOCD. Enterprise utilized the 200 square foot sampling interval. 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, January 8, 2020 3:31 PM
To: 'Steve Austin' <<u>nnepawq@frontiernet.net</u>>; 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)'
<<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Griswold, Jim, EMNRD <<u>Jim.Griswold@state.nm.us</u>>
Subject: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

This email is a notification that Enterprise had a release of natural gas on the Lateral C-7 Loop pipeline today. No liquids were release to the ground surface. The pipeline was isolated, depressurized, locked out and tagged out. The release site is located at UL G Section 25 T27N R9W; 36.549324 -107.736168. The release is located in a wash (blue line on a USGS Topo). I will keep you informed of the remediation activities. 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) tjlong@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.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:		OGRID:
E	Enterprise Field Services, LLC	241602
F	PO Box 4324	Action Number:
ŀ	Houston, TX 77210	10910
		Action Type:
		[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/16/2022

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Action 10910