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

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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): NRM2011345278
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.170690	Longitude -107.169768	(NAD 83 in decimal degrees to 5 decimal places)
Site Name Lateral 2C-79	Site Type Natural	Gas Gathering Pipeline
Date Release Discovered: 04/6/2020	Serial Number (if ap	pplicable): N/A

Unit Letter	Section	Township	Range	County
D	4	22N	3W	Rio Arriba

Surface Owner: State Federal X Tribal Private (Name: Jicarilla Apache Tribe

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)		
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)		
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			
Condensate	Volume Released (bbls): 15-20 BBLs	Volume Recovered (bbls): None		
🗌 Natural Gas	Volume Released (Mcf):	Volume Recovered (Mcf):		
Other (describe) Volume/Weight Released (provide units): Volume/Weight Recovered (provide units)				
were affected. An area of Enterprise determined the Enterprise completed the wide by approximately 30 New Mexico Oil Conserv the variance request and	of approximately 5 feet in diameter was impacted by relie release reportable per NMOCD regulation on April 9, eremediation on April 30, 2020. The final excavation din 6 feet deep. Approximately 1,062 cubic yards of hydroc ation Division approved land farm facility. The Jicarilla a alternative closure method proposed by Enterprise that	2020, due to the volume of impacted subsurface soil. mensions measured approximately 71 feet long by 23 feet carbon impacted soil was excavated and transported to a Apache Nation Environmental Protection Office approved		

report is included with this "Final." C-141.

Received by OCD: 8/11/2021 10:24:30 AM Form C-141 State of New Mexico

Page 2

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

 <u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD Discourse) 				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD D				
must be notified 2 days prior to liner inspection)	strict office			
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling	;)			
Description of remediation activities				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for relea- may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of lia should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surfa- human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility fi compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substan restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	ses which Ibility ce water, or tially			
Printed Name: Jon E. Fields Title: Director, Environmental Signature: Image: Solution of the second				
email: jefields@eprod.com Telephone: (713) 381-6684				
OCD Only				
Received by: Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by: Nelson Velez Date: 03/07/2022 Printed Name: Nelson Velez Title: Environmental Specialist – Adv				
Printed Name: Nelson Velez Title:Environmental Specialist – Adv				



ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS HOLDINGS LLC (General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

August 9, 2021

7016 0600 0000 4870 3677 Return Receipt Requested

Jicarilla Apache Tribe Environmental Protection Office Attn: Cordell Te Cube & Keith Manwell P. O. Box 507 Dulce, New Mexico 87528-0507

RE: C-141 Form Enterprise Field Services, LLC Lateral 2C-79 Rio Arriba County, NM

Mr. Te Cube & Mr. Manwell:

Enterprise Field Services, LLC is submitting the final release report on Lateral 2C-79 that occurred on April 6, 2020.

If you have questions or require additional information, please contact our field representative, Thomas Long at (505) 599-2286 or Brian Stone, Field Environmental Manager at (970) 263-3020.

Thank you,

Jon E. Fields Director, Field Environmental

/bjm Enclosures

Rodney M. Sartor Senior Director, Environmental

P.O. BOX 4324 HOUSTON, TEXAS 77210-4324 713.381.6500

1100 LOUISIANA STREET HOUSTON, TEXAS 77002-5227 www.enterpriseproducts.com



CLOSURE REPORT

Property:

Lateral 2C-79 NW ¼, S4 T22N R3W Sandoval County, New Mexico

September 25, 2020 Ensolum Project No. 05A1226102

Prepared for:

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

Prepared by:

etechil

Ranee Deechilly Environmental Scientist

Ummo

Kyle Summers, CPG Sr. Project Manager

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- Appendix G: Regulatory Correspondence



CLOSURE REPORT

Lateral 2C-79 NW ¼, S4 T22N R3W Sandoval County, New Mexico

Ensolum Project No. 05A1226102

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name: Lateral 2C-79 (Site)	
Location: 36.170690° North, 107.169768° West Northwest (NW) ¼ of Section 4, Township 22 North, Range 3 West Sandoval County, New Mexico	
Property:	Jicarilla Apache Nation
Regulatory:Jicarilla Apache Nation Environmental Protection Office (JAN-EPO) and New Me Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)	

On April 6, 2020, Enterprise personnel discovered a release of condensate coming from the Lateral 2C-79 two-inch pipeline drip riser valve. Enterprise subsequently isolated and locked the pipeline out of service. The valve on the drip riser was replaced and the pipeline was placed back in service. On April 9, 2020, Enterprise initiated activities to remediate petroleum hydrocarbon impact.

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 Jicarilla Apache Nation Environmental Protection Office (JAN-EPO) and New Mexico EMNRD OCD. In the absence of published JAN-EPO regulatory guidance, Ensolum, LLC (Ensolum) deferred to the New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, as guidance, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures 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
 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 Public Land Survey
 System (PLSS) sections. The nearest POD (SJ-00809) is located approximately 5.5 miles
 southwest of the Site and located at a lower elevation (6,848) than the Site (7,820 feet). The records
 for this POD indicate a depth to water of 145 feet below grade surface (bgs).
- No cathodic wells were identified within one mile of the Site in the New Mexico EMNRD imaging database. In addition, no cathodic wells were identified in adjacent Sections.
- Records for former test holes associated with a below grade tank registration and various pit permits were identified in the New Mexico EMNRD OCD imaging database. The test hole identified nearest to the Site was advanced at the Jicarilla O 3E well location which is located approximately 2.3 miles southeast of the Site (near a large ephemeral wash) and at a lower elevation (7,072 feet, based on permit documentation) than the Site (approximately 7,182 feet). Records for this former test hole indicate a depth to water of 70 feet bgs. Records for the former test hole drilled at the Chacon Amigos #9 well location, located approximately 2.8 miles east of the Site and at a lower elevation (7,138 feet, based on permit documentation) than the Site, indicate that the test hole was drilled to 65 feet bgs and no water was detected. Records for the former test hole drilled at the Chacon Amigos #10 well location, located approximately 3.2 miles southeast of the Site and at a lower elevation (7,169 feet, based on permit documentation) than the Site, indicate a depth to water of 115 feet bgs.
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The excavation is located approximate 130 feet west of a small unnamed ephemeral wash that may convey water during significant rain events.
- 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 Statues 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.



• The Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database does not provide flood hazard information for this geographic area of the Jicarilla Apache reservation. Based on the location of the Site, it is unlikely that the Site is located within a 100-year floodplain.

During the late stages of excavation at the Site, Enterprise requested the application of Tier II standards for closure consideration at the Site due to safety concerns, lack of physical receptors for the remaining COC impact, the removal of all shallow soil impact, and the apparent depth to groundwater. Based on available information, Enterprise estimates the depth to water at the Site to be greater than 100 feet bgs and possibly greater than 200 feet bgs. Enterprise also agreed to apply a potassium permanganate solution application to the excavation prior to backfilling. On May 4, 2020 JAN-EPO approved the variance request and alternative closure method. Regulatory correspondence is provided in **Appendix G**.

Applicable closure criteria for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release (Tier II)				
Constituent	Limit			
Chloride EPA 300.0 or SM4500 Cl B		10,000 mg/kg		
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	2,500 mg/kg		
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 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 April 9, 2020, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction, Inc. (OFT). provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

During the remediation activities, apparent historic impact was encountered when the excavation was deepened. Due to safety concerns related to the extent and depth of the excavation, Site activities were suspended after the April 30, 2020 sampling event. Enterprise corresponded with the New Mexico EMNRD OCD and the JAN-EPO and reached an agreement on a variance request and alternative closure method that included the supplemental application of potassium permanganate to the excavation prior to backfilling. Potassium permanganate was selected for its ability to persistently degrade (through chemical oxidation via the permanganate anion) petroleum hydrocarbon COCs. Additionally, the permanganate anion oxidation reactions are relatively safe to apply as the oxidants and byproducts are not toxic, the reactions are not exothermic, pH monitoring is not necessary, no catalysts are needed to instigate oxidation, and soil carbonates do not appear to interfere with the oxidation processes.

On May 4, 2020 JAN-EPO approved the variance request and alternative closure method proposed by Enterprise. On May 8, 2020, 275 gallons of potassium permanganate were applied to the excavation by Envirotech prior to backfilling activities.

The final excavation measured approximately 71 feet long and 23 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 36 feet bgs.



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

A total of approximately 1,062 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 was backfilled with a combination of JAN-EPO approved native fill and segregated, laboratory-confirmed stockpiled soil and then contoured to surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline drip riser (**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 29 composite soil samples (S-1 through S-28), comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, one (1) composite soil sample (SP-1) was collected from the stockpiled soil that was segregated for potential reuse, to confirm the material was suitable to remain on Site. A clean shovel was utilized to obtain fresh aliquots from each accessible area of the excavation. An excavator, operated by OFT, was utilized to obtain fresh aliquots from the central (deep) portion of the excavation. Regulatory correspondence is provided in **Appendix G**.

First Sampling Event

On April 17, 2020, the first sampling event was performed at the Site. The New Mexico EMNRD OCD, JAN-EPO, and the Bureau of Indian Affairs (BIA) Jicarilla Agency were notified of the sampling event. A representative from the JAN-EPO was present during sampling activities.

Composite soil samples S-1 (10') was collected from the floor of excavation near the release point. Composite soil samples S-2 (5'-10) and S-3 (0'-10) were collected from the sidewalls near the release point. Composite soil samples S-4 (5') and S-5 (5') were collected from floor of the eastern portion of the excavation. Composite soil samples S-6 (0'-5') and S-7 (0'-5') were collected from the sidewalls of the eastern portion of the excavation. Composite soil samples S-8 (10'-21'), S-9 (11'-21'), S-10 (0'-11'), S-11 (11'-21'), S-12 (0'-11'), S-13 (5'-21'), S-14 (5'-21'), S-15 (0'-11'), and S-16 (11'-21') were collected from the sidewalls of the central portion of the excavation. Composite soil samples S-17 (21') and S-18 (21') were collected from the floor of the central portion of the excavation. Composite soil samples S-19 (5'), S-20 (5'), and S-21 (5') were collected from the floor of the sloped ramp in the western portion of the excavation. Composite soil samples S-22 (0'-3'), S-23 (0'-5'), and S-24 (0'-5') were collected from the sidewalls of the sloped ramp.

Subsequent analytical results identified total petroleum hydrocarbon (TPH) concentrations that exceeded the New Mexico EMNRD OCD Tier I closure criteria for composite soil samples S-13, S-14, S-17, and S-18. In response to the data exceedances, the excavation was deepened in the central portion of the excavation. In order for the excavator to safely reach and remove the impacted soil at the floor of the excavation the soils associated with S-13 and S-14 were not removed, as these soils provided a more stable operating platform for the excavator than would be provided by the underlying soils. The soils associated with composite soil samples S-17 and S-18 were removed and transported from the Site to the landfarm for disposal/remediation. During removal of the soils associated with S-17 and S-18, apparent



historic impact was identified on the floor of the excavation (based on increasing TPH (field screening) concentrations with depth).

Second Sampling Event

On April 24, 2020, the second sampling event was performed at the Site. The New Mexico EMNRD OCD, JAN-EPO, and the BIA Jicarilla Agency were notified of the sampling event although no representatives were present during sampling activities.

Composite soil samples S-25 (31') and S-26 (21') were collected from the floor of the central (deep) portion of the excavation. Laboratory analytical results identified TPH concentrations that exceeded the New Mexico EMNRD OCD Tier I closure criteria. The excavation was deepened, and the soils associated with samples S-25 and S-26 were removed from the Site and transported to the landfarm for disposal/remediation.

Third Sampling Event

On April 30, 2020, the third sampling event was performed at the Site and composite soil samples S-27 (36') and S-28 (36') were collected from the floor of the central (deep) portion of the excavation. The New Mexico EMNRD OCD, JAN-EPO, and the BIA Jicarilla Agency were notified of the sampling event although no representatives were present during sampling activities. Subsequent laboratory analytical results identified TPH concentrations that exceeded the applicable New Mexico EMNRD OCD closure criteria.

On May 4, 2020 JAN-EPO approved the variance request and alternative closure method proposed by Enterprise that included changing the closure standards to the New Mexico EMNRD Tier II standards and the application of potassium permanganate to the excavation prior to backfill.

The soil samples that were collected during these sampling events 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; 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 practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-16, S-19 through S-24, S-27, S-28, and SP-1) to the applicable New Mexico EMNRD OCD closure criteria. The soils associated with composite samples S-17, S-18, S-25, and S-26 were transported to Envirotech landfarm for disposal/remediation and are 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 composite soil samples S-27 and S-28 collected from soils remaining at the Site indicate total BTEX concentrations of 7.9 mg/kg and 4.2 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate total BTEX is not present 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 results for composite soil samples S-27, and S-28 collected from soils remaining at the Site indicate combined TPH GRO/DRO concentrations of 1,780 mg/kg and 1,010 mg/kg, respectively, which exceed the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg. The laboratory analytical results for composite soil samples S-13 and S-14 collected from soils remaining at the Site indicate combined TPH GRO/DRO concentrations of 59 mg/kg and 66 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 1,000 mg/kg.
- The laboratory analytical results for composite soil samples S-13, S-14, S-15, S-20, S-27, and S-28 collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO concentrations ranging from 22 mg/kg (S-15) to 2,310 mg/kg (S-27), which are less the applicable New Mexico EMNRD OCD closure criteria of 2,500 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO 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 2,500 mg/kg.
- The laboratory analytical results for composite soil samples S-1, S-8, S-9, S-27, and S-28 collected from soils remaining at the Site indicate chloride concentrations ranging from 63 mg/kg (S-27) to 200 mg/kg (S-1), which are less than the applicable New Mexico EMNRD OCD closure criteria of 10,000 mg/kg for chlorides. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10,000 mg/kg for chlorides.

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

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with JAN-EPO approved native imported fill and the segregated, laboratoryconfirmed stockpiled soil and was then contoured to surrounding grade. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

• A total of 29 composite soil samples were collected from the excavation. Additionally, one (1) composite soil sample was collected from stockpiled soil.





- Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the Site soils. Combined TPH GRO/DRO concentrations that exceed the New Mexico EMNRD OCD closure criteria are present at the floor of the central portion (36 feet bgs) of the former excavation.
- JAN-EPO approved the variance request and alternative closure method proposed by Enterprise that included changing the closure standards to the New Mexico EMNRD Tier II standards and the application of potassium permanganate to the excavation prior to backfill.
- A total of approximately 1,062 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled and was then contoured to surrounding grade.

Based on field observations and laboratory analytical results and the approval by JAN-EPO of the variance and closure plan 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 Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

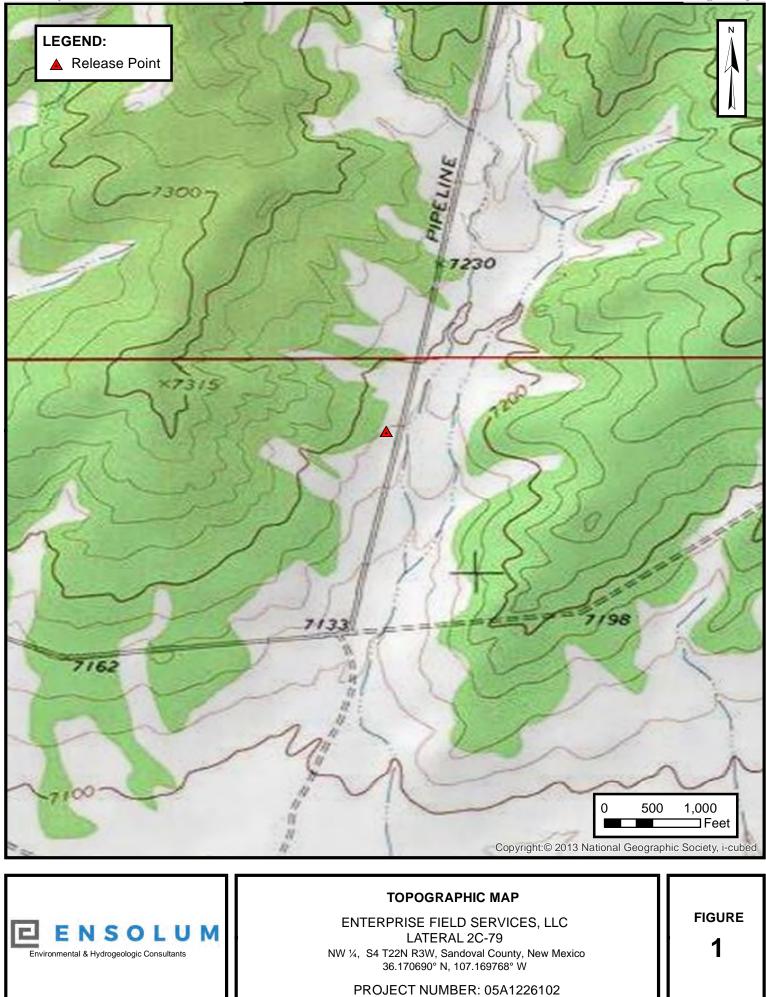


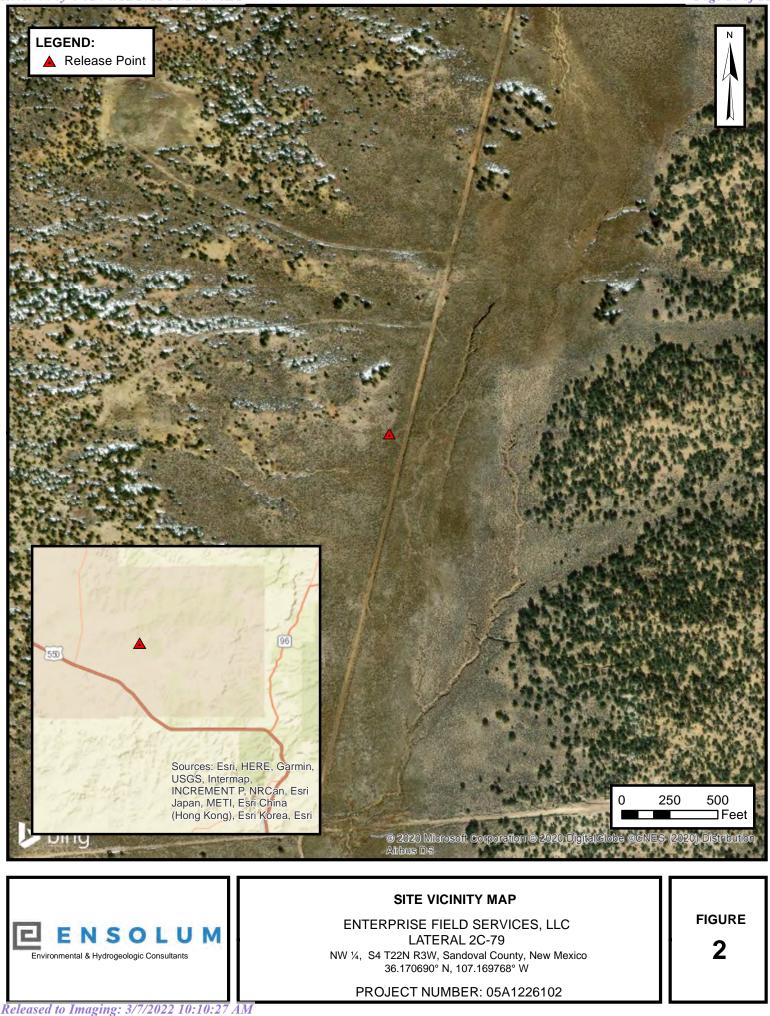
APPENDIX A

Figures

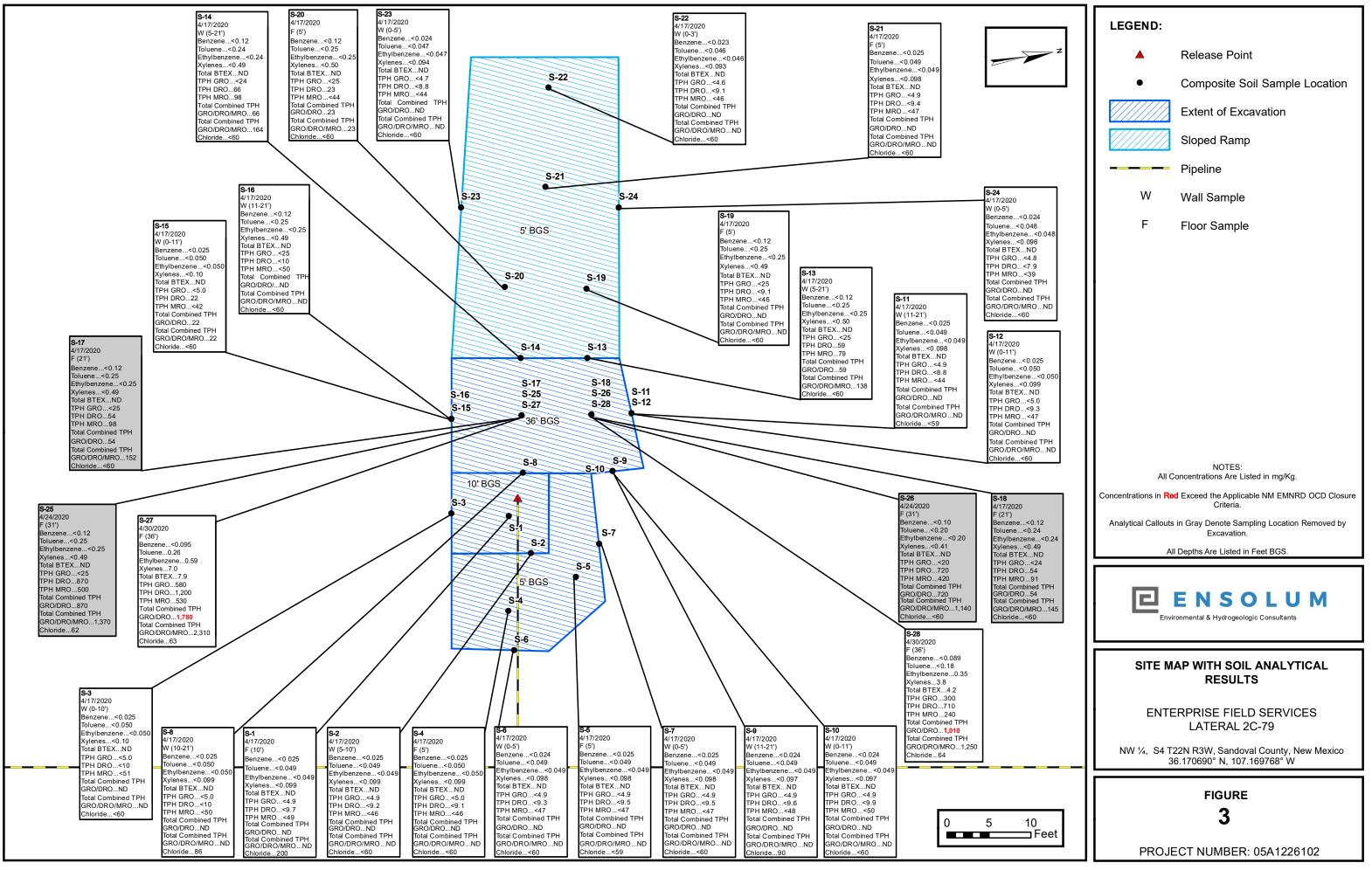
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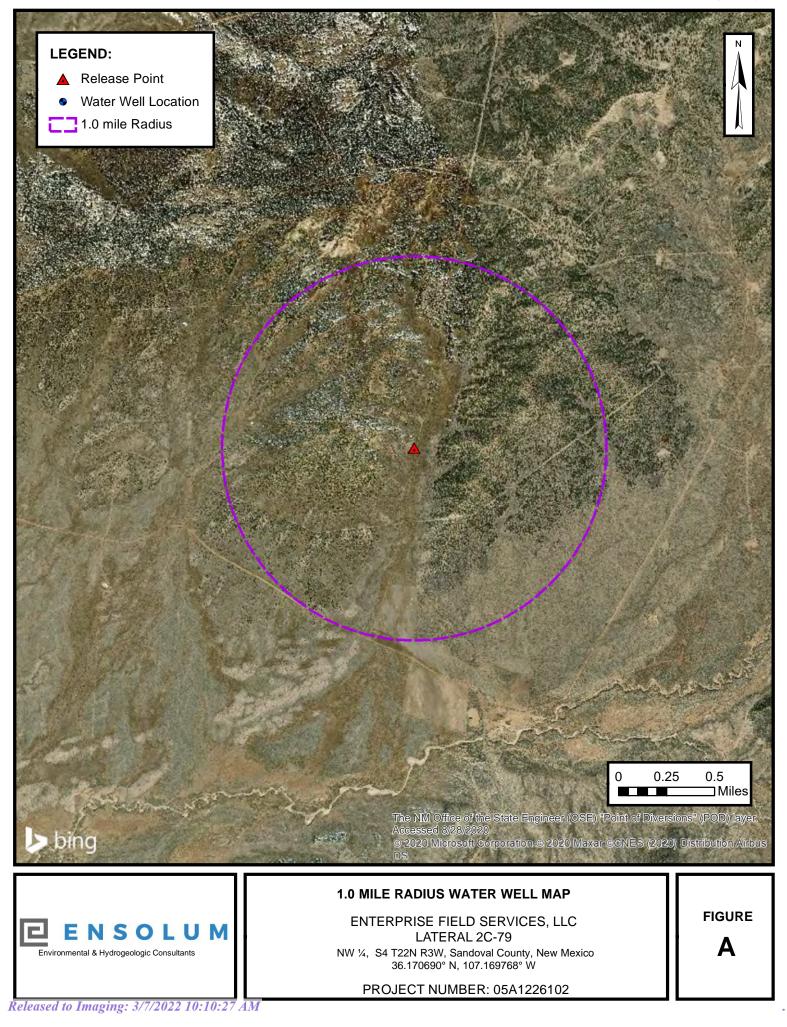


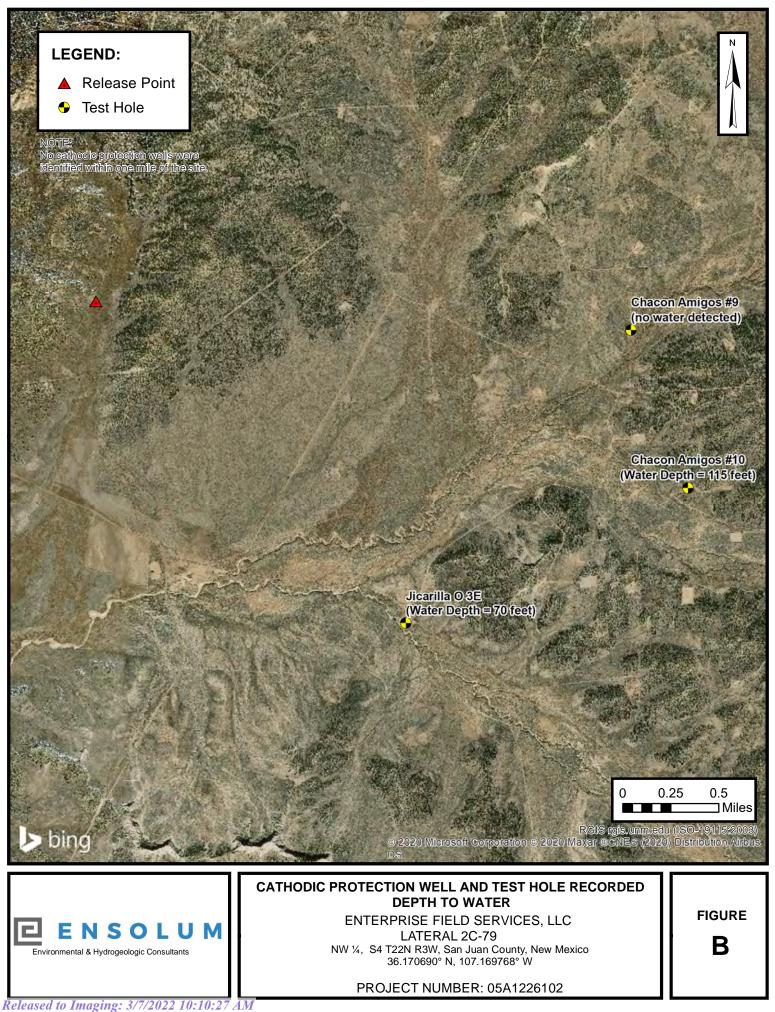


APPENDIX B

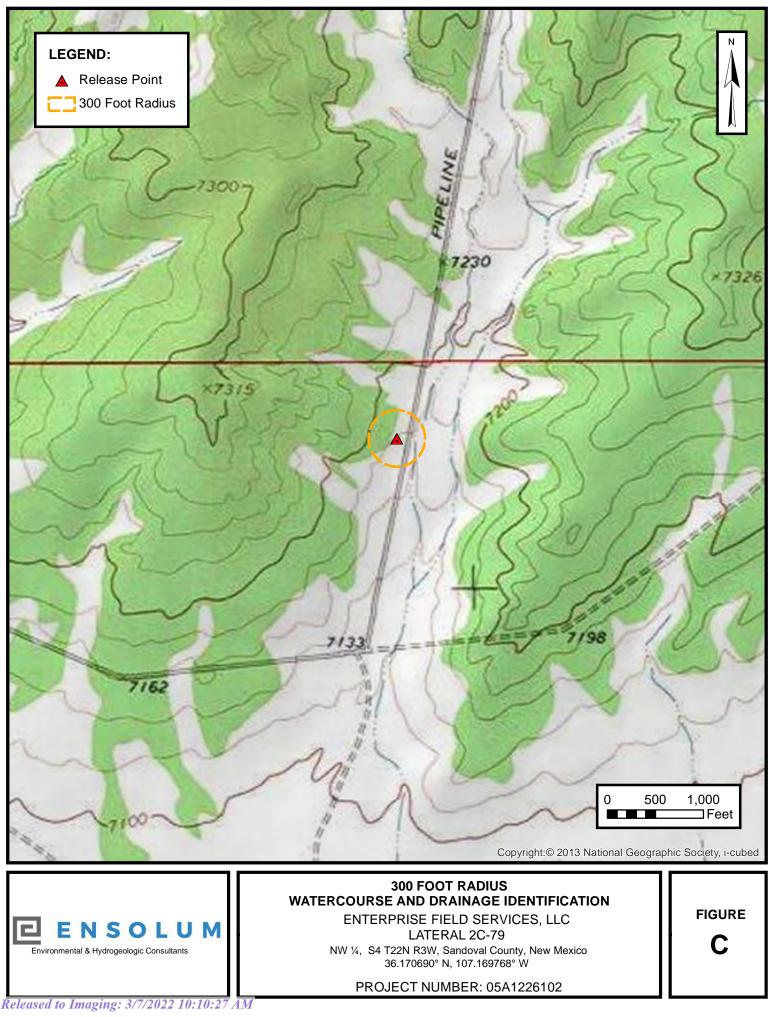
Siting Figures and Documentation

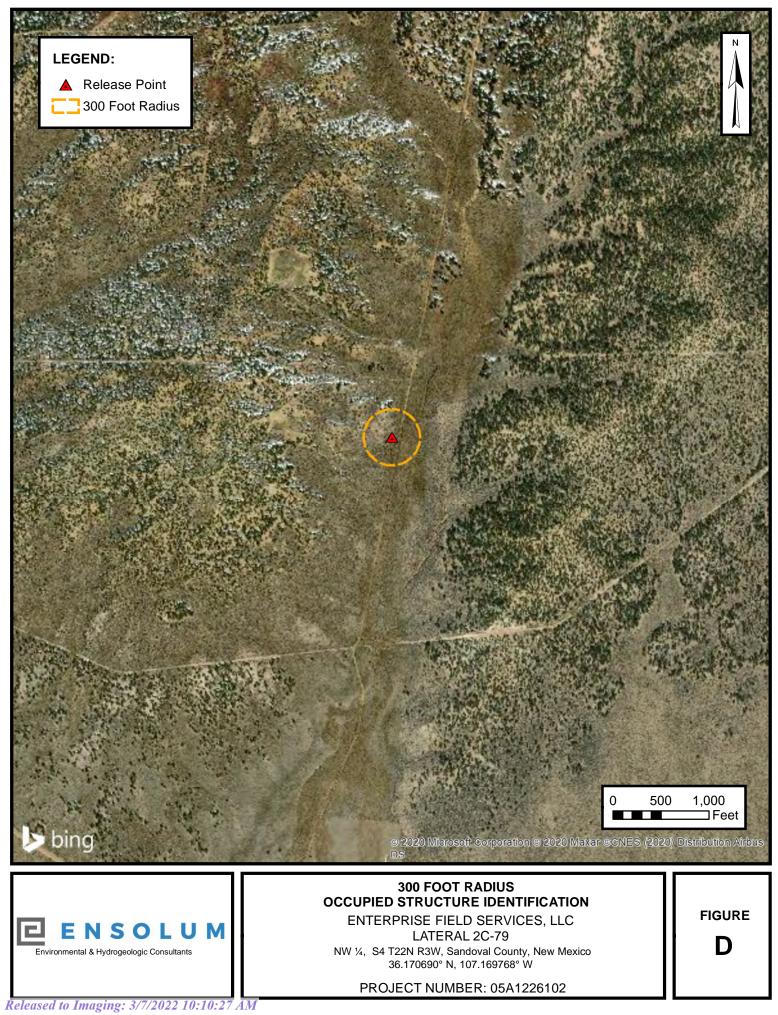
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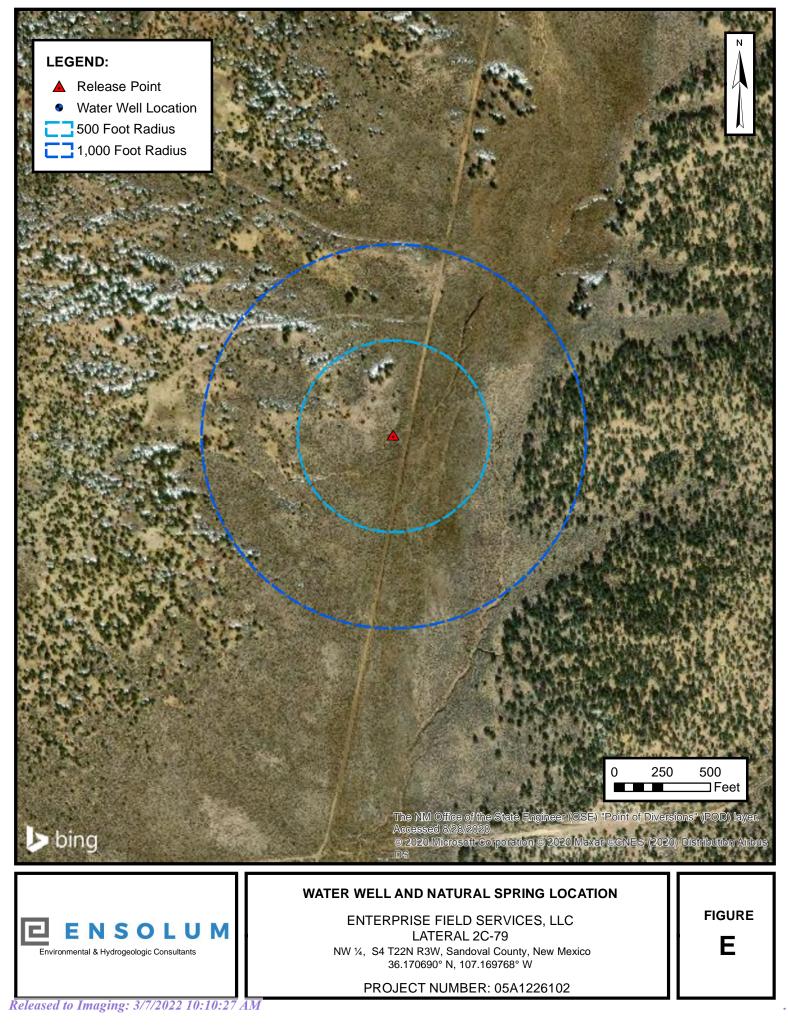




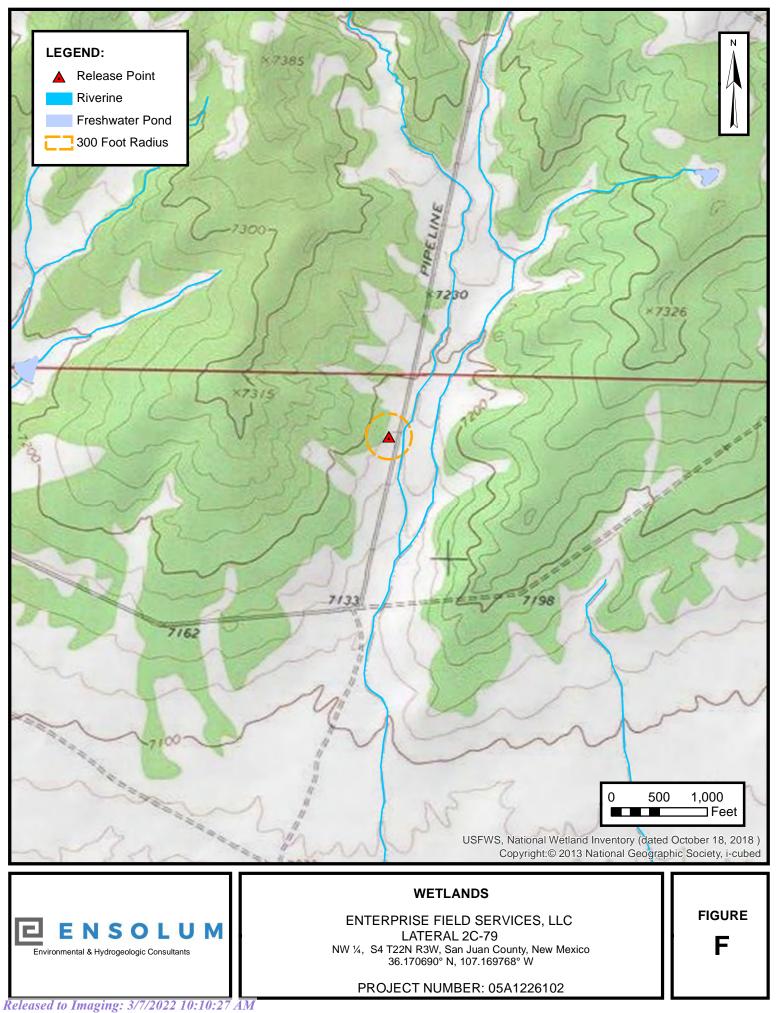
Received by OCD: 8/11/2021 10:24:30 AM

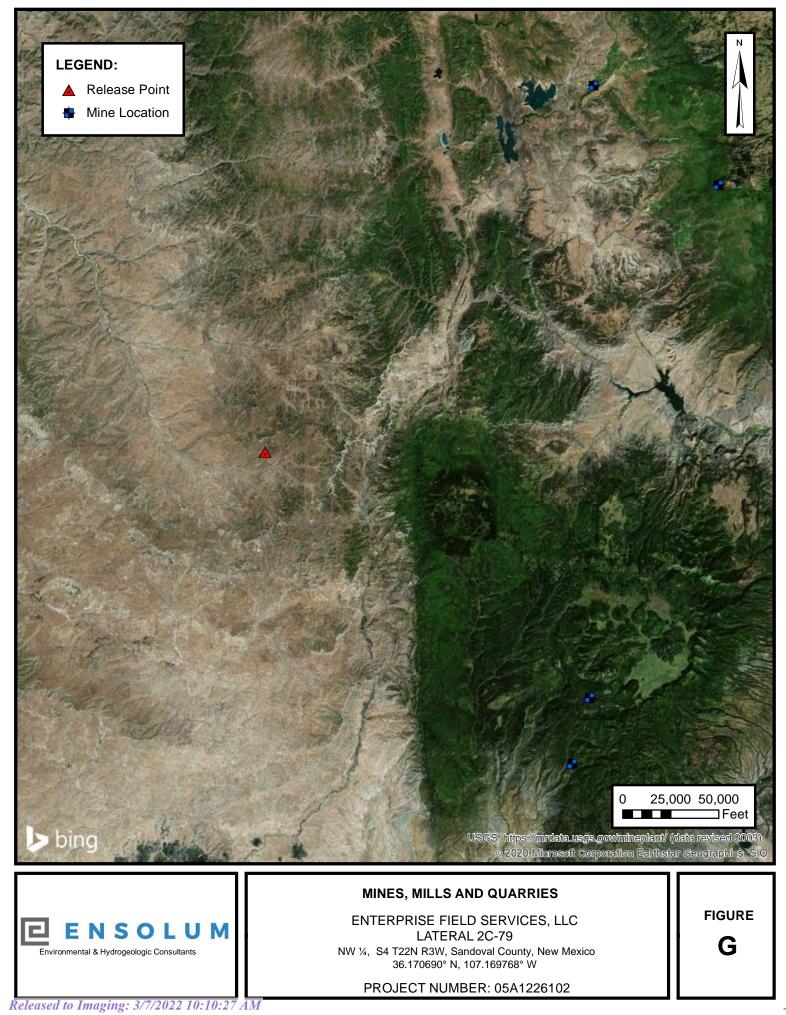


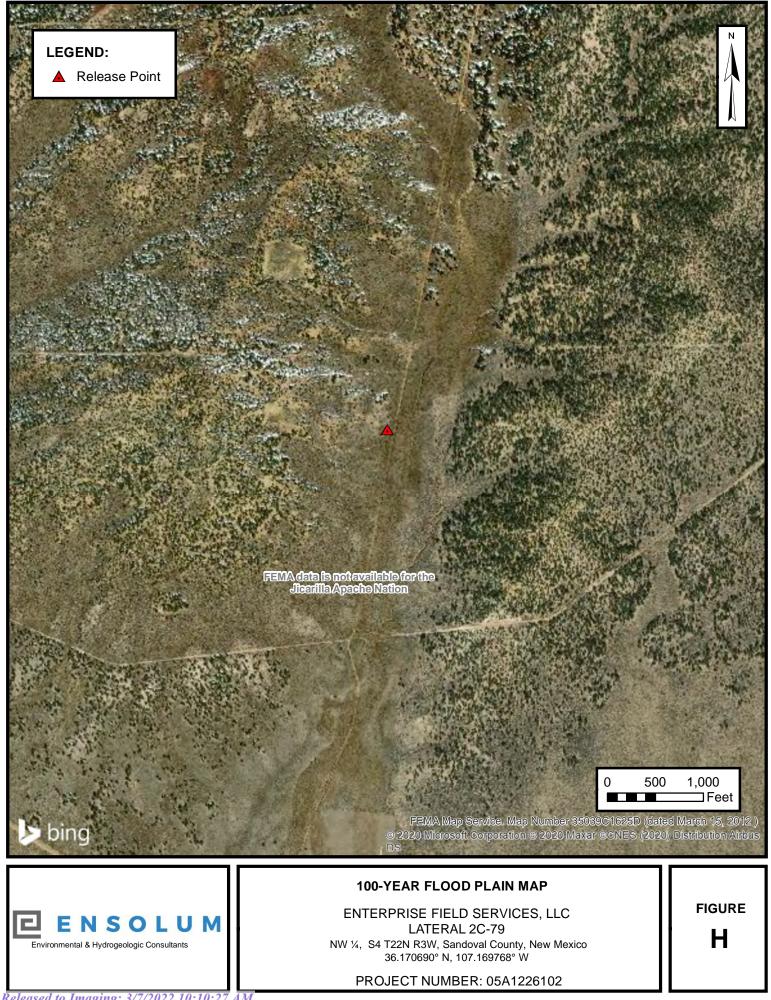




Received by OCD: 8/11/2021 10:24:30 AM









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

No records found.

PLSS Search:

Section(s): 3, 4, 5, 8, 9, 10 Township: 22N

Range: 03W

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): 32, 33, 34

Township: 23N

Range: 03W

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.

Form WR-23

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

	• 		(A) Owner of well N.M.	State Highwa	y Department	
1			Street and Number 1120	Cerillos Rd.	. P.O. Box 1	149
Ì			City Santa Fe			Mexico
	-		Well was drilled under Pe	rmit No. HC 76 8	og and is	located in the
			<u> 4 NE 14 SW</u>	4 of Section 9	Twp.22 N.	
	×	······	(B) Drilling Contractor	N.M.S.D.H.	License	No.WD 319
l.			Street and Number P.O	<u>. Box 1149</u>		
	<u></u>		City Santa Fe		State New	Mexico
			Drilling was commenced	November 28		19 78
		4-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Drilling was completed	<u>April 19.</u>	anter a si sa ina ina ina ina ina ina ina ina ina in	19 79
(Plat of 640	acres)				

Elevation at top of casing in feet above sea level <u>6850.9</u> Total depth of well <u>322 feet</u> State whether well is shallow or artesian shallow Depth to water upon completion <u>145'</u>

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation					
1	145	300	155	All sandstone layers through this interval					
2									
3									
4									
5	1	· · · · · · · · · · · · · · · · · · ·							

Section 3				RECOR		NG	1.+ .+ 	· · ·	
Dia	Pounds	Threads	Depth		Feet	Tumo Shao	Perforations		
in.	ft.	in	Top	Bottom	# COV	Type Shoe	From	To	
6 6/8	18.5	welded	0	325	325	None	264	325	
					-				
			-						
		<u> </u>							

Section 4			RECORD	OF MUDDI	NG A	ND CEMENT	(ING	10 - 10 - 10 10	•	
Depth in Feet		Diameter Tons		No. Sacks of			Math	ods Used	s s s	6
From	То	Hole in in.	Clay	Cemen	ent l		MOUTOUR CREA		AN	
							· · · · · · · · · · · · · · · · · · ·	· · · - · · · · · · · · ·	ZA	
				1		· · · · · · · · · · · · · · · · · · ·			111 ::2	
						····		· · · ·		13
					f				x m	- 613
	ч		÷		:				20	
Section 5	:			PLUGGIN	G REG	CORD				دىي دىي
Name of 2	Plugging	Contractor	did not	pluq			L	icense No.		
Street and	l Number				City		St	ate		
		ed								
Plugging a	ipproved	by:	1 1			Cemen	Plugs were	placed as	follows:	
	· 		Basih Sürler		Ň		of Plug To	No. of	Sacks Use	i
·	FOR USE	OF STATE EN	GINEER ON	LY						
*.' ··		38	: ITA CI	_YAM:07q		······································				
Date R	eceived	5-15-	79							
		- C								

Use LOW

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Son Location No. 22N

Page 28 of 111 TW 2.26090

Received by OCD: 8/11/2021 10:24:30 AM

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Section 6		i ,	LOG				
Depth From	Depth-in Feet Thickness From To in Feet		Color	Type of Material Encountered			
0.0	16.0		tan	dry silty clay			
16.0	49.0	 	tan	silty sand			
49.0	72.0		tan	silty sand w/thin layers stiff clay			
72.0	101.0		Yellow	sand or soft sandstone with porous			
<u> </u>				streaks stiff clay			
101.0	134.0		Blue-gray	clay			
134.0	264.0		Gray to Brown	interbedded shale and sandstone			
264.0	302.0	·	Gray	soft sandstone			
302.0	322.0		Blue Grey	clay shale			
				Casing set 1:00 PM, 4-18-79			
				cleaned 100' sand from hole 4-19-79			
·····				back flushed and gravel packed hole			
<u></u>				4-19-79			
				Production with air compressor blowing			
				at 200'= 60 gpm for 4 hours. strong			
				odor hyd. sul. gas			
<u> </u>				Draw-down test began 5-8-79			
				<u> 3 HP Reda - pumped well</u>			
	L			48 hours @ 30 gpm - pump set 250'.			
a				Recovery completed May 11, 1979			
-							
		1					
	1						
	1	1					
<u> </u>	+	<u> </u>					

1. A.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well. NMSHD

;:

Landare Driller Rhan



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

Received by OCD: 8/11/2021 10:24:30 AM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138 Revised 08/01/11 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	Invoicing Information PayKeyRB21200 AFE: N47821
2. Originating Site: Lateral 2C-79 Pipeline	
	Apr. 1 2020
4. Source and Description of Waste: Source: Hydrocarbon impacted soil from remediation activities associated with a natural gas pipeline re Description: Hydrocarbon impacted soil from remediation activities associated with a natural gas pipelin Estimated Volume 50 yd ³ bbls Known Volume (to be entered by the operator at the end of the haul)	1062 yd^3 bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STAT	ГUS
I, Thomas Long Jaw Lay, representative or authorized agent for Enterprise Products Operating do hereb Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environment regulatory determination, the above described waste is: (Check the appropriate classification)	
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operation exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> Monthly Weekly	
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste a subpart D, as amended. The following documentation is attached to demonstrate the above-describe the appropriate items)	s defined in 40 CFR, part 261,
□ MSDS Information □ RCRA Hazardous Waste Analysis □ Process Knowledge □ Other (Pr	rovide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR	R LANDFARMS
I, Thomas Long 4-9-2020, representative for Enterprise Products Operating authorizes <u>Envirote</u> Generator Signature the required testing/sign the Generator Waste Testing Certification.	ech, Inc. to complete
I, <u>Grag</u> <u>Calibre</u> , representative for <u>Envirotech, Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test and tested for chlo have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of of the representative samples are attached to demonstrate the above-described waste conform to the require 19.15.36 NMAC.	of 19.15.36 NMAC. The results
5. Transporter: TBD	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011 Address of Facility: Hill Top, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Waste Acceptance Status:	Other

.



APPENDIX D

Photographic Documentation

Enterprise Field Services, LLC Closure Report Lateral 2C-79 Ensolum Project No. 05A1226102



Photograph 1 Photograph Description: View of in process excavation activities. Photograph 2 Photograph Description: View of in process excavation activities. Photograph 3 Photograph Description: View of the initial excavation during the first sampling event.

Enterprise Field Services, LLC Closure Report Lateral 2C-79 Ensolum Project No. 05A1226102



Photograph 4 Photograph Description: View of the initial excavation during the first sampling event. Photograph 5 Photograph Description: View of in process excavation activities, subsequent to the first sampling event. Photograph 6 Photograph Description: View of the final excavation. The final depth of the excavation measured approximately 36 feet below grade surface.

Enterprise Field Services, LLC Closure Report Lateral 2C-79 Ensolum Project No. 05A1226102



Photograph 7

Photograph Description: View of the application of potassium permanganate.



Photograph 8

Photograph Description: View of the excavation after potassium permanganate application.



Photograph 9

Photograph Description: View of the excavation after potassium permanganate application.



Enterprise Field Services, LLC Closure Report Lateral 2C-79 Ensolum Project No. 05A1226102



Photograph 10

Photograph Description: View of the excavation after initial restoration.



Photograph 11

Photograph Description: View of the excavation after initial restoration.





APPENDIX E

Table 1 – Soil Analytical Summary

ENSOLUM

							TABLE ²							
							Lateral 2C							
						SOIL	ANALYTICAL							
Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH	Total Combined TPH	Chloride
		C- Composite G - Grab	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(GRO/DRO) (mg/kg)	(GRO/DRO/MRO) (mg/kg)	(mg/kg)
		Natural Resources		10	NE	NE	NE	50				1,000	2,500	10,000
-				Co	mposite Soil Samp	les Removed by Exc	avation and Trans	ported to the Landfa	arm for Disposal/Re	emediation				
S-17	4.17.20	С	21	<0.12	<0.25	<0.25	<0.49	ND	<25	54	98	54	152	<60
S-18	4.17.20	С	21	<0.12	<0.24	<0.24	<0.49	ND	<24	54	91	54	145	<60
S-25	4.24.20	С	31	<0.12	<0.25	<0.25	<0.49	ND	<25	870	500	870	1,370	62
S-26	4.24.20	С	31	<0.10	<0.20	<0.20	<0.41	ND	<20	720	420	720	1,140	<60
						Stockpil	ed Soil Sample Re	used as Backfill						
SP-1	4.17.20	С	Stockpile	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	<51	ND	ND	<60
	Excavation Composite Soil Samples													
S-1	4.17.20	С	10	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.7	<49	ND	ND	200
S-2	4.17.20	С	5 to 10	<0.025	< 0.049	<0.049	<0.099	ND	<4.9	<9.2	<46	ND	ND	<60
S-3	4.17.20	С	0 to 10	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	<51	ND	ND	<60
S-4	4.17.20	С	5	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.1	<46	ND	ND	<60
S-5	4.17.20	С	5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.5	<47	ND	ND	<59
S-6	4.17.20	С	0 to 5	<0.024	< 0.049	<0.049	<0.098	ND	<4.9	<9.3	<47	ND	ND	<60
S-7	4.17.20	С	0 to 5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.5	<47	ND	ND	<60
S-8	4.17.20	С	10 to 21	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<10	<50	ND	ND	86
S-9	4.17.20	С	11 to 21	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.6	<48	ND	ND	90
S-10	4.17.20	С	0 to 11	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.9	<50	ND	ND	<60
S-11	4.17.20	С	11 to 21	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<8.8	<44	ND	ND	<59
S-12	4.17.20	С	0 to 11	<0.025	< 0.050	<0.050	<0.099	ND	<5.0	<9.3	<47	ND	ND	<60
S-13	4.17.20	С	5 to 21	<0.12	<0.25	<0.25	<0.50	ND	<25	59	79	59	138	<60
S-14	4.17.20	C	5 to 21	<0.12	<0.24	<0.24	<0.49	ND	<24	66	98	66	<mark>164</mark>	<60
S-15	4.17.20	C	0 to 11	< 0.025	<0.050	< 0.050	<0.10	ND	<5.0	22	<42	22	22	<60
S-16	4.17.20	C	11 to 21	<0.12	<0.25	<0.25	<0.49	ND	<25	<10	<50	ND	ND	<60
S-19	4.17.20	С	5	<0.12	<0.25	<0.25	<0.49	ND	<25	<9.1	<46	ND	ND	<60
S-20	4.17.20	С	5	<0.12	< 0.25	< 0.25	< 0.50	ND	<25	23	<44	23	23	<60
S-21	4.17.20	C	5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.4	<47	ND	ND	<60
S-22	4.17.20	C	0 to 3	< 0.023	< 0.046	< 0.046	< 0.093	ND	<4.6	<9.1	<46	ND	ND	<60
S-23	4.17.20	C	0 to 5	< 0.024	< 0.047	<0.047	<0.094	ND	<4.7	<8.8	<44	ND	ND	<60
S-24	4.17.20	C	0 to 5	< 0.024	< 0.048	< 0.048	< 0.096	ND	<4.8	<7.9	<39	ND	ND	<60
S-27	4.30.20	C	36	< 0.095	0.26	0.59	7.0	7.9	580	1,200	530	1,780	2,310	63
S-28	4.30.20	С	36	<0.089	<0.18	0.35	3.8	4.2	300	710	240	1,010	1,250	64

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



April 23, 2020

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

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Lateral 2C-79

OrderNo.: 2004846

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 25 sample(s) on 4/18/2020 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	Environmenta	ıl Ar	nalysis	Laborato	ry, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM Project: Lateral 2C-79 Lab ID: 2004846-001	Client Sample ID: S-1 Collection Date: 4/17/2020 10:10:00 AM Matrix: SOIL Received Date: 4/18/2020 10:20:00 AM					
Analyses	Result	DI	Oual Units		Date Analyzed	Batch
Analyses	Kesuit	KL	Quai Units	DI	Date Analyzeu	Datch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	200	60	mg/Kg	20	4/20/2020 10:54:24 PM	51972
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/20/2020 9:39:16 PM	51943
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/20/2020 9:39:16 PM	51943
Surr: DNOP	87.0	55.1-146	%Rec	1	4/20/2020 9:39:16 PM	51943
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 2:18:36 PM	51936
Surr: BFB	98.7	66.6-105	%Rec	1	4/21/2020 2:18:36 PM	51936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2020 2:18:36 PM	51936
Toluene	ND	0.049	mg/Kg	1	4/21/2020 2:18:36 PM	51936
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 2:18:36 PM	51936
Xylenes, Total	ND	0.099	mg/Kg	1	4/21/2020 2:18:36 PM	51936
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	4/21/2020 2:18:36 PM	51936

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
- S % Recovery outside of range due to dilution or matrix

- 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 1 of 33

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM Project: Lateral 2C-79	Client Sample ID: S-2 Collection Date: 4/17/2020 10:15:00 AM					
Lab ID: 2004846-002	Matrix: SOIL		Received Dat	e: 4/1	8/2020 10:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/20/2020 11:06:45 PM	51972
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/20/2020 10:51:58 PM	51943
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/20/2020 10:51:58 PM	51943
Surr: DNOP	95.9	55.1-146	%Rec	1	4/20/2020 10:51:58 PM	51943
EPA METHOD 8015D: GASOLINE RANGE	i .				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 3:28:58 PM	51936
Surr: BFB	100	66.6-105	%Rec	1	4/21/2020 3:28:58 PM	51936
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2020 3:28:58 PM	51936
Toluene	ND	0.049	mg/Kg	1	4/21/2020 3:28:58 PM	51936
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 3:28:58 PM	51936
Xylenes, Total	ND	0.099	mg/Kg	1	4/21/2020 3:28:58 PM	51936
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	4/21/2020 3:28:58 PM	51936

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
- S % Recovery outside of range due to dilution or matrix

- 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 33

Hall	Environmental	Analysis	Laboratory.	Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM Project: Lateral 2C-79	Client Sample ID: S-3 Collection Date: 4/17/2020 10:20:00 AM					
Lab ID: 2004846-003	Matrix: SOIL		Received Date	e: 4/1	18/2020 10:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/20/2020 11:19:06 PM	51972
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/20/2020 11:16:06 PM	51943
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	4/20/2020 11:16:06 PM	51943
Surr: DNOP	89.3	55.1-146	%Rec	1	4/20/2020 11:16:06 PM	51943
EPA METHOD 8015D: GASOLINE RANGE	I				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/21/2020 4:39:20 PM	51936
Surr: BFB	102	66.6-105	%Rec	1	4/21/2020 4:39:20 PM	51936
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2020 4:39:20 PM	51936
Toluene	ND	0.050	mg/Kg	1	4/21/2020 4:39:20 PM	51936
Ethylbenzene	ND	0.050	mg/Kg	1	4/21/2020 4:39:20 PM	51936
Xylenes, Total	ND	0.10	mg/Kg	1	4/21/2020 4:39:20 PM	51936
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	4/21/2020 4:39:20 PM	51936

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
- S % Recovery outside of range due to dilution or matrix

- 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 3 of 33

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-4	4				
Project: Lateral 2C-79	Collection Date: 4/17/2020 10:25:00 AM								
Lab ID: 2004846-004	Matrix: SOIL		Received Dat	e: 4/1	18/2020 10:20:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	CAS			
Chloride	ND	60	mg/Kg	20	4/20/2020 11:31:27 PM	51972			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP			
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/20/2020 11:40:12 PM	51943			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/20/2020 11:40:12 PM	51943			
Surr: DNOP	83.3	55.1-146	%Rec	1	4/20/2020 11:40:12 PM	51943			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/21/2020 5:02:50 PM	51936			
Surr: BFB	102	66.6-105	%Rec	1	4/21/2020 5:02:50 PM	51936			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.025	mg/Kg	1	4/21/2020 5:02:50 PM	51936			
Toluene	ND	0.050	mg/Kg	1	4/21/2020 5:02:50 PM	51936			
Ethylbenzene	ND	0.050	mg/Kg	1	4/21/2020 5:02:50 PM	51936			
Xylenes, Total	ND	0.099	mg/Kg	1	4/21/2020 5:02:50 PM	51936			
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/21/2020 5:02:50 PM	51936			

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 33

Hall	Environmenta	ıl Ar	nalysis	Laborato	ry, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-:	5			
Project: Lateral 2C-79	Collection Date: 4/17/2020 10:30:00 AM							
Lab ID: 2004846-005	Matrix: SOIL		Received Dat	e: 4/1	18/2020 10:20:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	59	mg/Kg	20	4/20/2020 11:43:47 PM	51972		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/21/2020 12:04:14 AM	51943		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/21/2020 12:04:14 AM	51943		
Surr: DNOP	98.9	55.1-146	%Rec	1	4/21/2020 12:04:14 AM	51943		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 5:26:23 PM	51936		
Surr: BFB	97.7	66.6-105	%Rec	1	4/21/2020 5:26:23 PM	51936		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.025	mg/Kg	1	4/21/2020 5:26:23 PM	51936		
Toluene	ND	0.049	mg/Kg	1	4/21/2020 5:26:23 PM	51936		
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 5:26:23 PM	51936		
Xylenes, Total	ND	0.098	mg/Kg	1	4/21/2020 5:26:23 PM	51936		
Surr: 4-Bromofluorobenzene	97.1	80-120	%Rec	1	4/21/2020 5:26:23 PM	51936		

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
- S % Recovery outside of range due to dilution or matrix

- 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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM			ient Sample II					
Project: Lateral 2C-79	Collection Date: 4/17/2020 10:35:00 AM							
Lab ID: 2004846-006	Matrix: SOIL		Received Dat	e: 4/1	18/2020 10:20:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	4/20/2020 11:56:08 PM	51972		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: CLP		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/21/2020 12:52:14 AM	51943		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/21/2020 12:52:14 AM	51943		
Surr: DNOP	94.6	55.1-146	%Rec	1	4/21/2020 12:52:14 AM	51943		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 5:49:53 PM	51936		
Surr: BFB	98.5	66.6-105	%Rec	1	4/21/2020 5:49:53 PM	51936		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	4/21/2020 5:49:53 PM	51936		
Toluene	ND	0.049	mg/Kg	1	4/21/2020 5:49:53 PM	51936		
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 5:49:53 PM	51936		
Xylenes, Total	ND	0.098	mg/Kg	1	4/21/2020 5:49:53 PM	51936		
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	4/21/2020 5:49:53 PM	51936		

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM	Client Sample ID: S-7 Collection Date: 4/17/2020 10:40:00 AM					
Project: Lateral 2C-79 Lab ID: 2004846-007	Matrix: SOIL	,			7/2020 10:40:00 AM 8/2020 10:20:00 AM	
Analyses	Result	RL			Date Analyzed	Batch
Analyses	Kesuit	KL	Qual Units	Dr	Date Analyzeu	Datti
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/21/2020 1:22:33 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/21/2020 1:16:12 AM	51943
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/21/2020 1:16:12 AM	51943
Surr: DNOP	93.8	55.1-146	%Rec	1	4/21/2020 1:16:12 AM	51943
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 6:13:24 PM	51936
Surr: BFB	97.1	66.6-105	%Rec	1	4/21/2020 6:13:24 PM	51936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2020 6:13:24 PM	51936
Toluene	ND	0.049	mg/Kg	1	4/21/2020 6:13:24 PM	51936
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 6:13:24 PM	51936
Xylenes, Total	ND	0.098	mg/Kg	1	4/21/2020 6:13:24 PM	51936
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	4/21/2020 6:13:24 PM	51936

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM			ient Sample II		8 7/2020 10:45:00 AM	
Project: Lateral 2C-79 Lab ID: 2004846-008	Matrix: SOIL	,			18/2020 10:43:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	86	60	mg/Kg	20	4/21/2020 1:34:53 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/21/2020 1:40:09 AM	51943
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/21/2020 1:40:09 AM	51943
Surr: DNOP	100	55.1-146	%Rec	1	4/21/2020 1:40:09 AM	51943
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/21/2020 6:36:58 PM	51936
Surr: BFB	102	66.6-105	%Rec	1	4/21/2020 6:36:58 PM	51936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2020 6:36:58 PM	51936
Toluene	ND	0.050	mg/Kg	1	4/21/2020 6:36:58 PM	51936
Ethylbenzene	ND	0.050	mg/Kg	1	4/21/2020 6:36:58 PM	51936
Xylenes, Total	ND	0.099	mg/Kg	1	4/21/2020 6:36:58 PM	51936
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	4/21/2020 6:36:58 PM	51936

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM Project: Lateral 2C-79	Client Sample ID: S-9 Collection Date: 4/17/2020 10:50:00 AM							
Lab ID: 2004846-009	Matrix: SOIL Received Date: 4/18/2020 10:20:00 AN							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	90	60	mg/Kg	20	4/21/2020 1:47:14 AM	51974		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/21/2020 2:04:05 AM	51943		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/21/2020 2:04:05 AM	51943		
Surr: DNOP	87.6	55.1-146	%Rec	1	4/21/2020 2:04:05 AM	51943		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 7:00:40 PM	51936		
Surr: BFB	100	66.6-105	%Rec	1	4/21/2020 7:00:40 PM	51936		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	4/21/2020 7:00:40 PM	51936		
Toluene	ND	0.049	mg/Kg	1	4/21/2020 7:00:40 PM	51936		
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 7:00:40 PM	51936		
Xylenes, Total	ND	0.097	mg/Kg	1	4/21/2020 7:00:40 PM	51936		
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	4/21/2020 7:00:40 PM	51936		

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-	10							
Project: Lateral 2C-79		(Collection Dat	e: 4/1	7/2020 10:55:00 AM	analyst: CAS						
Lab ID: 2004846-010	Matrix: SOIL		Received Dat	e: 4/1	8/2020 10:20:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	CAS						
Chloride	ND	60	mg/Kg	20	4/21/2020 1:59:35 AM	51974						
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP						
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/21/2020 2:28:00 AM	51943						
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/21/2020 2:28:00 AM	51943						
Surr: DNOP	92.2	55.1-146	%Rec	1	4/21/2020 2:28:00 AM	51943						
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB						
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 8:34:39 PM	51936						
Surr: BFB	101	66.6-105	%Rec	1	4/21/2020 8:34:39 PM	51936						
EPA METHOD 8021B: VOLATILES					Analyst	: NSB						
Benzene	ND	0.024	mg/Kg	1	4/21/2020 8:34:39 PM	51936						
Toluene	ND	0.049	mg/Kg	1	4/21/2020 8:34:39 PM	51936						
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 8:34:39 PM	51936						
Xylenes, Total	ND	0.097	mg/Kg	1	4/21/2020 8:34:39 PM	51936						
Surr: 4-Bromofluorobenzene	99.8	80-120	%Rec	1	4/21/2020 8:34:39 PM	51936						

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 Sample pH Not In Range
- Р RL Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM	Client Sample ID: S-11 Collection Date: 4/17/2020 11:00:00 AM							
Project: Lateral 2C-79 Lab ID: 2004846-011	Matrix: SOIL Received Date: 4/18/2020 10:20:00 AI							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	59	mg/Kg	20	4/21/2020 2:11:56 AM	51974		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP		
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	4/21/2020 2:51:52 AM	51943		
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/21/2020 2:51:52 AM	51943		
Surr: DNOP	89.4	55.1-146	%Rec	1	4/21/2020 2:51:52 AM	51943		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2020 8:57:58 PM	51936		
Surr: BFB	103	66.6-105	%Rec	1	4/21/2020 8:57:58 PM	51936		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	4/21/2020 8:57:58 PM	51936		
Toluene	ND	0.049	mg/Kg	1	4/21/2020 8:57:58 PM	51936		
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2020 8:57:58 PM	51936		
Xylenes, Total	ND	0.098	mg/Kg	1	4/21/2020 8:57:58 PM	51936		
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	4/21/2020 8:57:58 PM	51936		

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 33

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-	12	
Project: Lateral 2C-79			Collection Dat	e: 4/1	17/2020 11:05:00 AM	
Lab ID: 2004846-012	Matrix: SOIL	18/2020 10:20:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/21/2020 2:24:17 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/21/2020 3:15:44 AM	51943
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/21/2020 3:15:44 AM	51943
Surr: DNOP	92.1	55.1-146	%Rec	1	4/21/2020 3:15:44 AM	51943
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/21/2020 9:21:46 PM	51936
Surr: BFB	102	66.6-105	%Rec	1	4/21/2020 9:21:46 PM	51936
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2020 9:21:46 PM	51936
Toluene	ND	0.050	mg/Kg	1	4/21/2020 9:21:46 PM	51936
Ethylbenzene	ND	0.050	mg/Kg	1	4/21/2020 9:21:46 PM	51936
Xylenes, Total	ND	0.099	mg/Kg	1	4/21/2020 9:21:46 PM	51936
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/21/2020 9:21:46 PM	51936

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM	Client Sample ID: S-13						
Project: Lateral 2C-79		(Collec	tion Dat	e: 4/1	7/2020 11:10:00 AM	
Lab ID: 2004846-013	Matrix: SOIL		Recei	ved Dat	e: 4/1	8/2020 10:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	4/21/2020 2:36:36 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	59	9.0		mg/Kg	1	4/21/2020 3:39:35 AM	51943
Motor Oil Range Organics (MRO)	79	45		mg/Kg	1	4/21/2020 3:39:35 AM	51943
Surr: DNOP	101	55.1-146		%Rec	1	4/21/2020 3:39:35 AM	51943
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/21/2020 9:45:43 PM	51936
Surr: BFB	105	66.6-105	SD	%Rec	5	4/21/2020 9:45:43 PM	51936
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/21/2020 9:45:43 PM	51936
Toluene	ND	0.25	D	mg/Kg	5	4/21/2020 9:45:43 PM	51936
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/21/2020 9:45:43 PM	51936
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/21/2020 9:45:43 PM	51936
Surr: 4-Bromofluorobenzene	104	80-120	D	%Rec	5	4/21/2020 9:45:43 PM	51936

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 13 of 33

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM	CLIENT: ENSOLUM Client Sample ID: S-14							
Project: Lateral 2C-79				-		7/2020 11:15:00 AM		
Lab ID: 2004846-014	Matrix: SOIL		Rece	ived Dat	e: 4/1	8/2020 10:20:00 AM		
Analyses	Result	RL	Qua	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst:	CAS	
Chloride	ND	60		mg/Kg	20	4/21/2020 2:48:57 AM	51974	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst:	CLP	
Diesel Range Organics (DRO)	66	10		mg/Kg	1	4/21/2020 4:03:28 AM	51943	
Motor Oil Range Organics (MRO)	98	50		mg/Kg	1	4/21/2020 4:03:28 AM	51943	
Surr: DNOP	96.3	55.1-146		%Rec	1	4/21/2020 4:03:28 AM	51943	
EPA METHOD 8015D: GASOLINE RANG	SE					Analyst	NSB	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/21/2020 10:09:21 PM	51936	
Surr: BFB	102	66.6-105	D	%Rec	5	4/21/2020 10:09:21 PM	51936	
EPA METHOD 8021B: VOLATILES						Analyst:	NSB	
Benzene	ND	0.12	D	mg/Kg	5	4/21/2020 10:09:21 PM	51936	
Toluene	ND	0.24	D	mg/Kg	5	4/21/2020 10:09:21 PM	51936	
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/21/2020 10:09:21 PM	51936	
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/21/2020 10:09:21 PM	51936	
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	5	4/21/2020 10:09:21 PM	51936	

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		C	ient Sample II	D: S-	15					
Project: Lateral 2C-79		(Collection Dat	e: 4/1	17/2020 11:20:00 AM	D AM Batch analyst: CAS 39 AM 51974 analyst: CLP 08 AM 51943 08 AM 51943				
Lab ID: 2004846-015	Matrix: SOIL		Received Dat	e: 4/1	18/2020 10:20:00 AM	: CAS 51974 : CLP 51943 51943 51943 51943 : NSB				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	60	mg/Kg	20	4/21/2020 3:50:39 AM	51974				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP				
Diesel Range Organics (DRO)	22	8.5	mg/Kg	1	4/21/2020 4:51:08 AM	51943				
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	4/21/2020 4:51:08 AM	51943				
Surr: DNOP	105	55.1-146	%Rec	1	4/21/2020 4:51:08 AM	51943				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/21/2020 10:32:49 PM	51936				
Surr: BFB	103	66.6-105	%Rec	1	4/21/2020 10:32:49 PM	51936				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	4/21/2020 10:32:49 PM	51936				
Toluene	ND	0.050	mg/Kg	1	4/21/2020 10:32:49 PM	51936				
Ethylbenzene	ND	0.050	mg/Kg	1	4/21/2020 10:32:49 PM	51936				
Xylenes, Total	ND	0.10	mg/Kg	1	4/21/2020 10:32:49 PM	51936				
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/21/2020 10:32:49 PM	51936				

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient S	ample II	D: S-1	16	
Project: Lateral 2C-79	Collection Date: 4/17/2020 11:25:00 AM						
Lab ID: 2004846-016	Matrix: SOIL		Recei	ved Dat	e: 4/1	8/2020 10:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	4/21/2020 4:03:00 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/21/2020 5:14:58 AM	51943
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/21/2020 5:14:58 AM	51943
Surr: DNOP	96.2	55.1-146		%Rec	1	4/21/2020 5:14:58 AM	51943
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/21/2020 10:56:39 PM	51936
Surr: BFB	105	66.6-105	SD	%Rec	5	4/21/2020 10:56:39 PM	51936
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12	D	mg/Kg	5	4/21/2020 10:56:39 PM	51936
Toluene	ND	0.25	D	mg/Kg	5	4/21/2020 10:56:39 PM	51936
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/21/2020 10:56:39 PM	51936
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/21/2020 10:56:39 PM	51936
Surr: 4-Bromofluorobenzene	104	80-120	D	%Rec	5	4/21/2020 10:56:39 PM	51936

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient S	ample II	D: S-1	17	
Project: Lateral 2C-79	Collection Date: 4/17/2020 11:30:00 AM						
Lab ID: 2004846-017	Matrix: SOIL		Recei	ived Dat	e: 4/1	18/2020 10:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	ND	60		mg/Kg	20	4/21/2020 4:15:20 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	BRM
Diesel Range Organics (DRO)	54	8.8		mg/Kg	1	4/21/2020 8:34:02 PM	51943
Motor Oil Range Organics (MRO)	98	44		mg/Kg	1	4/21/2020 8:34:02 PM	51943
Surr: DNOP	96.6	55.1-146		%Rec	1	4/21/2020 8:34:02 PM	51943
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/21/2020 11:20:28 PM	51936
Surr: BFB	105	66.6-105	D	%Rec	5	4/21/2020 11:20:28 PM	51936
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.12	D	mg/Kg	5	4/21/2020 11:20:28 PM	51936
Toluene	ND	0.25	D	mg/Kg	5	4/21/2020 11:20:28 PM	51936
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/21/2020 11:20:28 PM	51936
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/21/2020 11:20:28 PM	51936
Surr: 4-Bromofluorobenzene	103	80-120	D	%Rec	5	4/21/2020 11:20:28 PM	51936

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM	Client Sample ID: S-18						
Project: Lateral 2C-79		(Collect	tion Dat	e: 4/1	17/2020 11:35:00 AM	
Lab ID: 2004846-018	Matrix: SOIL		Recei	ved Dat	e: 4/1	18/2020 10:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	4/21/2020 4:27:40 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	54	9.6		mg/Kg	1	4/21/2020 8:58:40 PM	51943
Motor Oil Range Organics (MRO)	91	48		mg/Kg	1	4/21/2020 8:58:40 PM	51943
Surr: DNOP	98.6	55.1-146		%Rec	1	4/21/2020 8:58:40 PM	51943
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/21/2020 11:44:13 PM	51936
Surr: BFB	103	66.6-105	D	%Rec	5	4/21/2020 11:44:13 PM	51936
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/21/2020 11:44:13 PM	51936
Toluene	ND	0.24	D	mg/Kg	5	4/21/2020 11:44:13 PM	51936
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/21/2020 11:44:13 PM	51936
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/21/2020 11:44:13 PM	51936
Surr: 4-Bromofluorobenzene	102	80-120	D	%Rec	5	4/21/2020 11:44:13 PM	51936

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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Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sa	ample II	D: S-	19				
Project: Lateral 2C-79		(Collect	tion Dat	e: 4/1	7/2020 11:40:00 AM				
Lab ID: 2004846-019	Matrix: SOIL Received Date: 4/18/2020 10:20:00 AM									
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst:	CAS			
Chloride	ND	60		mg/Kg	20	4/21/2020 4:40:01 AM	51974			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	CLP			
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/21/2020 6:26:30 AM	51943			
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/21/2020 6:26:30 AM	51943			
Surr: DNOP	109	55.1-146		%Rec	1	4/21/2020 6:26:30 AM	51943			
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst:	NSB			
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/22/2020 12:07:49 AM	51936			
Surr: BFB	103	66.6-105	D	%Rec	5	4/22/2020 12:07:49 AM	51936			
EPA METHOD 8021B: VOLATILES						Analyst:	NSB			
Benzene	ND	0.12	D	mg/Kg	5	4/22/2020 12:07:49 AM	51936			
Toluene	ND	0.25	D	mg/Kg	5	4/22/2020 12:07:49 AM	51936			
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/22/2020 12:07:49 AM	51936			
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/22/2020 12:07:49 AM	51936			
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	5	4/22/2020 12:07:49 AM	51936			

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
- S % Recovery outside of range due to dilution or matrix

- 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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sa	ample II	D: S-2	20	
Project: Lateral 2C-79		(Collect	tion Dat	e: 4/1	7/2020 11:45:00 AM	
Lab ID: 2004846-020	Matrix: SOIL		Recei	ved Dat	e: 4/1	8/2020 10:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	4/21/2020 4:52:21 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	23	8.8		mg/Kg	1	4/21/2020 6:50:21 AM	51943
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/21/2020 6:50:21 AM	51943
Surr: DNOP	102	55.1-146		%Rec	1	4/21/2020 6:50:21 AM	51943
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/22/2020 1:43:11 AM	51936
Surr: BFB	104	66.6-105	D	%Rec	5	4/22/2020 1:43:11 AM	51936
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/22/2020 1:43:11 AM	51936
Toluene	ND	0.25	D	mg/Kg	5	4/22/2020 1:43:11 AM	51936
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/22/2020 1:43:11 AM	51936
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/22/2020 1:43:11 AM	51936
Surr: 4-Bromofluorobenzene	102	80-120	D	%Rec	5	4/22/2020 1:43:11 AM	51936

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 20 of 33

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-2	21	
Project: Lateral 2C-79		(Collection Dat	e: 4/1	7/2020 11:50:00 AM	
Lab ID: 2004846-021	Matrix: SOIL		Received Dat	e: 4/1	18/2020 10:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/21/2020 5:04:42 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/20/2020 3:00:17 PM	51944
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/20/2020 3:00:17 PM	51944
Surr: DNOP	120	55.1-146	%Rec	1	4/20/2020 3:00:17 PM	51944
EPA METHOD 8015D: GASOLINE RANGE	l .				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/22/2020 2:07:06 AM	51937
Surr: BFB	102	66.6-105	%Rec	1	4/22/2020 2:07:06 AM	51937
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/22/2020 2:07:06 AM	51937
Toluene	ND	0.049	mg/Kg	1	4/22/2020 2:07:06 AM	51937
Ethylbenzene	ND	0.049	mg/Kg	1	4/22/2020 2:07:06 AM	51937
Xylenes, Total	ND	0.098	mg/Kg	1	4/22/2020 2:07:06 AM	51937
Surr: 4-Bromofluorobenzene	99.5	80-120	%Rec	1	4/22/2020 2:07:06 AM	51937

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM				ample II						
Project: Lateral 2C-79	Collection Date: 4/17/2020 11:55:00 AM									
Lab ID: 2004846-022	Matrix: SOIL		Rece	ived Dat	e: 4/1	8/2020 10:20:00 AM				
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	CAS			
Chloride	ND	60		mg/Kg	20	4/21/2020 5:17:04 AM	51974			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: ТОМ			
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/20/2020 4:36:58 PM	51944			
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/20/2020 4:36:58 PM	51944			
Surr: DNOP	122	55.1-146		%Rec	1	4/20/2020 4:36:58 PM	51944			
EPA METHOD 8015D: GASOLINE RANGE	l .					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/22/2020 2:31:00 AM	51937			
Surr: BFB	106	66.6-105	S	%Rec	1	4/22/2020 2:31:00 AM	51937			
EPA METHOD 8021B: VOLATILES						Analyst	: NSB			
Benzene	ND	0.023		mg/Kg	1	4/22/2020 2:31:00 AM	51937			
Toluene	ND	0.046		mg/Kg	1	4/22/2020 2:31:00 AM	51937			
Ethylbenzene	ND	0.046		mg/Kg	1	4/22/2020 2:31:00 AM	51937			
Xylenes, Total	ND	0.093		mg/Kg	1	4/22/2020 2:31:00 AM	51937			
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/22/2020 2:31:00 AM	51937			

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		C	ient Sample II	D: S-2	23					
Project: Lateral 2C-79	Collection Date: 4/17/2020 12:00:00 PM									
Lab ID: 2004846-023	Matrix: SOIL		Received Dat	e: 4/1	8/2020 10:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	60	mg/Kg	20	4/21/2020 5:54:05 AM	51974				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM				
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	4/20/2020 5:01:14 PM	51944				
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/20/2020 5:01:14 PM	51944				
Surr: DNOP	107	55.1-146	%Rec	1	4/20/2020 5:01:14 PM	51944				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/22/2020 2:54:43 AM	51937				
Surr: BFB	104	66.6-105	%Rec	1	4/22/2020 2:54:43 AM	51937				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.024	mg/Kg	1	4/22/2020 2:54:43 AM	51937				
Toluene	ND	0.047	mg/Kg	1	4/22/2020 2:54:43 AM	51937				
Ethylbenzene	ND	0.047	mg/Kg	1	4/22/2020 2:54:43 AM	51937				
Xylenes, Total	ND	0.094	mg/Kg	1	4/22/2020 2:54:43 AM	51937				
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	4/22/2020 2:54:43 AM	51937				

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM				ample II			
Project: Lateral 2C-79		(Collect	tion Dat	e: 4/1	7/2020 12:05:00 PM	
Lab ID: 2004846-024	Matrix: SOIL		Recei	ved Dat	e: 4/1	.8/2020 10:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	4/21/2020 6:06:26 AM	51974
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	том
Diesel Range Organics (DRO)	ND	7.9		mg/Kg	1	4/20/2020 5:25:31 PM	51944
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	4/20/2020 5:25:31 PM	51944
Surr: DNOP	104	55.1-146		%Rec	1	4/20/2020 5:25:31 PM	51944
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2020 3:18:28 AM	51937
Surr: BFB	106	66.6-105	S	%Rec	1	4/22/2020 3:18:28 AM	51937
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	4/22/2020 3:18:28 AM	51937
Toluene	ND	0.048		mg/Kg	1	4/22/2020 3:18:28 AM	51937
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2020 3:18:28 AM	51937
Xylenes, Total	ND	0.096		mg/Kg	1	4/22/2020 3:18:28 AM	51937
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/22/2020 3:18:28 AM	51937

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 2004846

Date Reported: 4/23/2020

CLIENT: ENSOLUM		Cl	ient Sa	ample II	D: SP	-1				
Project: Lateral 2C-79	Collection Date: 4/17/2020 12:10:00 PM									
Lab ID: 2004846-025	Matrix: SOIL		Recei	ved Dat	e: 4/1	8/2020 10:20:00 AM				
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	CAS			
Chloride	ND	60		mg/Kg	20	4/21/2020 6:18:46 AM	51974			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	ТОМ			
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/20/2020 5:49:56 PM	51944			
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/20/2020 5:49:56 PM	51944			
Surr: DNOP	103	55.1-146		%Rec	1	4/20/2020 5:49:56 PM	51944			
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/22/2020 3:42:13 AM	51937			
Surr: BFB	105	66.6-105	S	%Rec	1	4/22/2020 3:42:13 AM	51937			
EPA METHOD 8021B: VOLATILES						Analyst	: NSB			
Benzene	ND	0.025		mg/Kg	1	4/22/2020 3:42:13 AM	51937			
Toluene	ND	0.050		mg/Kg	1	4/22/2020 3:42:13 AM	51937			
Ethylbenzene	ND	0.050		mg/Kg	1	4/22/2020 3:42:13 AM	51937			
Xylenes, Total	ND	0.10		mg/Kg	1	4/22/2020 3:42:13 AM	51937			
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/22/2020 3:42:13 AM	51937			

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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	WO#:	2004846
Iall Environmental Analysis Laboratory, Inc.		23-Apr-20

Client:	ENSOLU	UM								
Project:	Lateral 2	2C-79								
Sample ID:	MB-51972	SampType: r	nblk	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID:	PBS	Batch ID: 5	1972	F	RunNo: 68	3286				
Prep Date:	4/20/2020	Analysis Date:	4/20/2020	S	SeqNo: 23	362383	Units: mg/K	g		
Analyte		Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.	5							
Sample ID:	LCS-51972	SampType: I	cs	Tes	tCode: EF	PA Method	300.0: Anion:	6		
Client ID:	LCSS	Batch ID: 5	1972	F	RunNo: 68	3286				
Prep Date:	4/20/2020	Analysis Date:	4/20/2020	5	SeqNo: 23	362384	Units: mg/K	g		
Analyte		Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.	5 15.00	0	93.0	90	110			
Sample ID:	MB-51974	SampType: r	nblk	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch ID:	1974	F	RunNo: 68	3286				
Prep Date:	4/20/2020	Analysis Date:	4/21/2020	S	SeqNo: 23	362415	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.	5							
Sample ID:	LCS-51974	SampType: I	cs	Tes	tCode: EF	PA Method	300.0: Anion:	6		
Client ID:	LCSS	Batch ID:	1974	F	RunNo: 68	3286				
Prep Date:	4/20/2020	Analysis Date:	4/21/2020	S	SeqNo: 23	862416	Units: mg/K	g		
1										
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

- 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

•	ironmenta			aborat	ory, Inc.					WO#:	2004846 23-Apr-20
Client: Project:	ENSOLU Lateral 20										
Sample ID: 20	04846-021AMS	Samp	Гуре: МS	;	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-2	21	Batc	h ID: 519	944	F	RunNo: 6	8265				
Prep Date: 4	/19/2020	Analysis I	Date: 4/	20/2020	S	SeqNo: 2	361880	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	inics (DRO)	48	9.6	47.94	3.234	92.5	47.4	136			
Surr: DNOP		4.9		4.794		102	55.1	146			
Sample ID: 20	04846-021AMSE) Samp	Гуре: МS	D	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-:	21	Batc	h ID: 519	944	F	RunNo: 6	8265				
Prep Date: 4	/19/2020	Analysis [Date: 4/	20/2020	S	SeqNo: 2	361881	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	inics (DRO)	55	9.6	47.89	3.234	107	47.4	136	13.9	43.4	
Surr: DNOP		5.7		4.789		119	55.1	146	0	0	

Sample ID: LCS-51944	SampType: LCS TestCode: EPA Method 80							d 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	ID: 519	944	R	tunNo: 6	8265							
Prep Date: 4/19/2020	Analysis D	ate: 4/	20/2020	S	eqNo: 2	361901	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	57	10	50.00	0	113	70	130						
Surr: DNOP	6.2		5.000		124	55.1	146						

Sample ID: LCS-51945	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 519	45	R	unNo: 68	8265				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	eqNo: 23	361902	Units: %Rec	:		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7	5.000		73.6	55.1	146			
Sample ID: MB-51944	SampType: MB	LK	Test	Code: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 519	944	R	unNo: 68	8265				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	eqNo: 23	361903	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	12	10.00		115	55.1	146			
Sample ID: MB-51945	SampType: MB	LK	Test	Code: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 519	45	R	unNo: 68	8265				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	eqNo: 23	361904	Units: %Rec	;		
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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

2004846

WO#:

Hall Environment	al Analysis L	aborat	ory, Inc.					WO#:	200484 23-Apr-2
Client: ENSOLU Project: Lateral 2									
Sample ID: MB-51945	SampType: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 519	945	F	RunNo: 68	8265				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	SeqNo: 23	361904	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4	10.00	of it iter var	74.4	55.1	146			Quai
Sample ID: MB-51938	SampType: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 519	938	F	RunNo: 68	3249				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	SeqNo: 23	362082	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4	10.00		84.4	55.1	146			
Sample ID: LCS-51938	SampType: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 519	938	F	RunNo: 68	3249				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	SeqNo: 23	362083	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1	5.000		82.9	55.1	146			
Sample ID: MB-51943	SampType: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 519	943	F	RunNo: 68	8249				
Prep Date: 4/19/2020	Analysis Date: 4/2	20/2020	S	SeqNo: 23	362294	Units: mg/Kg	3		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Notor Oil Range Organics (MRO)	ND 50	10.00		047	FF 4	4.40			
Surr: DNOP	9.5	10.00		94.7	55.1	146			
Sample ID: LCS-51943	SampType: LC					8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 519			RunNo: 68					
Prep Date: 4/19/2020	Analysis Date: 4/2			SeqNo: 23		Units: mg/Kg	-		
Analyte Diesel Range Organics (DRO)	Result PQL 50 10	SPK value 50.00	SPK Ref Val 0	%REC 99.6	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
Surr: DNOP	4.5	5.000	0	99.0 91.0	55.1	130			
Sample ID: 2004846-001AMS	SampType: MS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Rana	e Organics	
Client ID: S-1	Batch ID: 519		F	RunNo: 68	3249			-	
Prep Date: 4/19/2020	Analysis Date: 4/2			SeqNo: 23		Units: mg/K g	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53 9.7	48.54	6.220	96.0	47.4	136			
Surr: DNOP	4.5	4.854		93.2	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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	WO#:	2004846
Hall Environmental Analysis Laboratory, Inc.		23-Apr-20

Client: ENSOI	LUM									
Project: Lateral	2C-79									
Sample ID: 2004846-001AM	SD SampT	уре: МS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-1	Batch	n ID: 51	943	F	RunNo: 68	3249				
Prep Date: 4/19/2020	Analysis D	ate: 4/	20/2020	S	SeqNo: 23	362301	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.15	6.220	87.4	47.4	136	5.34	43.4	
Surr: DNOP	4.1		5.015		82.4	55.1	146	0	0	

Qualifiers:

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- 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 Environmental Analysis Laboratory, Inc

	WO#:	2004846
ental Analysis Laboratory, Inc.		23-Apr-20

Client:ENSOLUProject:Lateral 2									
Sample ID: mb-51936	SampType: ME	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 51	936	R	lunNo: 68	3306				
Prep Date: 4/19/2020	Analysis Date: 4/	21/2020	S	eqNo: 23	863111	Units: mg/K	íg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000	1000		101	66.6	105			
Sample ID: Ics-51936	SampType: LC	s	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 51	936	R	unNo: 68	3306				
Prep Date: 4/19/2020	Analysis Date: 4/	21/2020	S	eqNo: 23	363112	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0	25.00	0	83.4	80	120			
Surr: BFB	1100	1000		112	66.6	105			S
Sample ID: 2004846-002ams	SampType: MS	6	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: S-2	Batch ID: 51	R	RunNo: 68306						
Prep Date: 4/19/2020	Analysis Date: 4/	21/2020	S	eqNo: 23	863115	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 4.9	24.56	0	85.8	80	120			
Surr: BFB	1100	982.3		109	66.6	105			S
Sample ID: 2004846-002amsc	d SampType: MS	SD	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: S-2	Batch ID: 51	936	RunNo: 68306						
Prep Date: 4/19/2020	Analysis Date: 4/	21/2020	S	eqNo: 23	863116	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 4.9	24.63	0	84.4	80	120	1.35	20	
Surr: BFB	1100	985.2		110	66.6	105	0	0	S
Sample ID: mb-51937	SampType: ME	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 51	937	R	unNo: 68	3306				
Prep Date: 4/19/2020									
	Analysis Date: 4/	22/2020	S	SeqNo: 23	363135	Units: mg/K	g		
Analyte	Analysis Date: 4/ Result PQL		S SPK Ref Val	SeqNo: 23 %REC	S63135 LowLimit	Units: mg/K HighLimit	s g %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	Result PQL ND 5.0	SPK value		%REC	LowLimit	HighLimit	-	RPDLimit	Qual
	Result PQL					-	-	RPDLimit	Qual
Gasoline Range Organics (GRO)	Result PQL ND 5.0	SPK value 1000	SPK Ref Val	%REC 101	LowLimit 66.6	HighLimit	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB	Result PQL ND 5.0 1000	SPK value 1000	SPK Ref Val	%REC 101	LowLimit 66.6 PA Method	HighLimit	%RPD		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: Ics-51937	Result PQL ND 5.0 1000 SampType: LC	SPK value 1000 :S 937	SPK Ref Val Test	%REC 101 tCode: EF	LowLimit 66.6 PA Method 3306	HighLimit	%RPD		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

ENSOLUM

Client:

Qualifiers:

* D

Н

ND

S

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

Not Detected at the Reporting Limit

OC SUMMARY REPORT

AM	1
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В Analyte detected in the associated Method Blank

Е Value above quantitati J

Р Sample pH Not In Range

RL Reporting Limit

iantitation range	
All shares and shares and	limite

Analyte detected below quantitation limits

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L C		
Hall Environmental	Analysis Laboratory,	Inc.

Project: Lateral	2C-79									
Sample ID: Ics-51937	SampT	Гуре: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batcl	h ID: 519	937	F	RunNo: 6	8306				
Prep Date: 4/19/2020	Analysis D	Date: 4/	22/2020	S	SeqNo: 2	363136	Units: mg/#	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics (GRO)	21	5.0	25.00	0	84.6	80	120			
Surr: BFB	1100		1000		112	66.6	105			S
Sample ID: 2004846-022ams	s SampT	Гуре: МS	3	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: S-22	Batcl	Batch ID: 51937			RunNo: 68317					
Prep Date: 4/19/2020	Analysis D	Date: 4/	22/2020	5	SeqNo: 2	364451	Units: mg/#	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics (GRO)	20	4.6	23.06	0	84.9	80	120			
Surr: BFB	1000		922.5		112	66.6	105			S
Sample ID: 2004846-022ams	sd SampT	Гуре: МS	\$D	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	e	
Client ID: S-22	Batcl	h ID: 519	937	F	RunNo: 6	8317				
Prep Date: 4/19/2020	Analysis D	Date: 4/	22/2020	5	SeqNo: 2	364452	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics (GRO)	20	4.8	24.15	0	84.2	80	120	3.77	20	
Surr: BFB	1100		966.2		112	66.6	105	0	0	S

2004846 23-Apr-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

AI KEPUKI	WO#:	2004846
ntal Analysis Laboratory, Inc.		23-Apr-20

Client: Project:	ENSOLU Lateral 20										
Sample ID: I	mb-51936	SampT	Гуре: МЕ	BLK	Tes	stCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batcl	h ID: 519	936	F	RunNo: 6	8306				
Prep Date:	4/19/2020	Analysis D	Date: 4/	21/2020	Ş	SeqNo: 2	363158	Units: mg/k	Ka		
•								•	•		Qual
Analyte Benzene		Result ND	PQL 0.025	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene		ND	0.020								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromo	ofluorobenzene	1.0		1.000		101	80	120			
Sample ID: I	LCS-51936	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batcl	h ID: 519	936	F	RunNo: 6	8306				
Prep Date:	4/19/2020	Analysis D	Date: 4/	21/2020	5	SeqNo: 2	363159	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.84	0.025	1.000	0	84.4	80	120			
Toluene		0.87	0.050	1.000	0	87.1	80	120			
Ethylbenzene		0.88	0.050	1.000	0	87.9	80	120			
Xylenes, Total	a .	2.7	0.10	3.000	0	88.3	80	120			
Surr: 4-Bromo	ofluorobenzene	0.99		1.000		99.1	80	120			
Sample ID:	2004846-001ams	SampT	Гуре: МS	5	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	S-1	Batcl	h ID: 519	936	RunNo: 68306						
Prep Date:	4/19/2020	Analysis D	Date: 4/	21/2020	5	SeqNo: 2	363161	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	0.9970	0	87.3	78.5	119			
Toluene		0.91	0.050	0.9970	0.01254	89.7	75.7	123			
Ethylbenzene		0.93	0.050	0.9970	0	92.9	74.3	126			
Xylenes, Total		2.8	0.10	2.991	0.01935	92.7	72.9	130			
Surr: 4-Bromo	ofluorobenzene	1.0		0.9970		101	80	120			
Sample ID: 2	2004846-001amsd	Samp1	Гуре: МS	SD.	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	S-1	Batcl	h ID: 519	936	F	RunNo: 6	8306				
Prep Date:	4/19/2020	Analysis D	Date: 4/	21/2020	5	SeqNo: 2	363162	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	0.9980	0	89.4	78.5	119	2.53	20	
Toluene		0.92	0.050	0.9980	0.01254	91.2	75.7	123	1.70	20	
Ethylbenzene		0.94	0.050	0.9980	0	94.0	74.3	126	1.28	20	
Xylenes, Total		2.8	0.10	2.994	0.01935	93.9	72.9	130	1.30	20	
Surr: 4-Bromo	ofluorobenzene	1.0		0.9980		101	80	120	0	0	

Qualifiers:

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

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

Client: Project:

QC SUMMARY REPORT Hall Envir

	WO#: 2004846	
ironmental Analysis Laboratory, Inc.	23-Apr-20	
ENSOLUM Lateral 2C-79		

Sample ID: mb-51937	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 519	937	F	RunNo: 6	8306				
Prep Date: 4/19/2020	Analysis D	Date: 4/2	22/2020	S	SeqNo: 2:	363182	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	1.0		1.000		100	80	120			
Sample ID: LCS-51937	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 519	937	F	RunNo: 68	8306				
Prep Date: 4/19/2020	Analysis D	Date: 4/2	22/2020	S	SeqNo: 2	363183	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	89.0	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID: 2004846-021ams	SampT	Type: MS	5	Ies	tCode: EF	PA Method	8021B: Volat	iles		
Sample ID: 2004846-021ams Client ID: S-21	•	「ype: MS h ID: 51			tCode: EF RunNo: 61		8021B: Volat	lles		
	•	h ID: 519	937	F		8317	Units: mg/K			
Client ID: S-21	Batcl	h ID: 519	937 22/2020	F	RunNo: 6	8317			RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020	Batcl Analysis D	h ID: 519 Date: 4/2	937 22/2020	א פ	RunNo: 68 SeqNo: 2 3	3317 364495	Units: mg/K	g	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte	Batcl Analysis D Result	h ID: 51 9 Date: 4/ 2 PQL	937 22/2020 SPK value	R S SPK Ref Val	RunNo: 68 SeqNo: 2: %REC	3317 364495 LowLimit	Units: mg/K HighLimit	g	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene	Batcl Analysis E Result 0.80	h ID: 51 Date: 4 /2 PQL 0.023	937 22/2020 SPK value 0.9294	F S SPK Ref Val 0	RunNo: 68 SeqNo: 2 : <u>%REC</u> 86.0	3317 364495 LowLimit 78.5	Units: mg/K HighLimit 119	g	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene	Batcl Analysis E Result 0.80 0.83	h ID: 519 Date: 4/2 PQL 0.023 0.046	22/2020 SPK value 0.9294 0.9294	F S SPK Ref Val 0 0	RunNo: 66 SeqNo: 2: %REC 86.0 89.3	3317 364495 LowLimit 78.5 75.7	Units: mg/K HighLimit 119 123	g	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene	Batcl Analysis E Result 0.80 0.83 0.86	h ID: 519 Date: 4/2 PQL 0.023 0.046 0.046	22/2020 SPK value 0.9294 0.9294 0.9294	F SPK Ref Val 0 0 0	RunNo: 6 SeqNo: 2 %REC 86.0 89.3 92.1	3317 364495 LowLimit 78.5 75.7 74.3	Units: mg/K HighLimit 119 123 126	g	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batcl Analysis E Result 0.80 0.83 0.86 2.6 0.94	h ID: 519 Date: 4/2 PQL 0.023 0.046 0.046	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294	F S SPK Ref Val 0 0 0 0	RunNo: 68 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101	3317 364495 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: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Batcl Analysis E Result 0.80 0.83 0.86 2.6 0.94 I SampT	A ID: 519 Date: 4/2 PQL 0.023 0.046 0.046 0.093	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 2.788 0.9294	F SPK Ref Val 0 0 0 0 0 Tes	RunNo: 68 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101	3317 364495 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: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amsc	Batcl Analysis E Result 0.80 0.83 0.86 2.6 0.94 I SampT	h ID: 519 Date: 4/2 0.023 0.046 0.046 0.093	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 3.788 0.9294 3.788 0.9294	F SPK Ref Val 0 0 0 0 0 Tes F	RunNo: 68 SeqNo: 2: <u>%REC</u> 86.0 89.3 92.1 92.0 101 tCode: EF	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317	Units: mg/K HighLimit 119 123 126 130 120	g %RPD	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amsc Client ID: S-21	Batcl Analysis E Result 0.80 0.83 0.86 2.6 0.94 I SampT Batcl	h ID: 519 Date: 4/2 0.023 0.046 0.046 0.093	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 35D 337 22/2020	F SPK Ref Val 0 0 0 0 0 Tes F	RunNo: 68 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101 tCode: EF	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317	Units: mg/K HighLimit 119 123 126 130 120 8021B: Volat	g %RPD	RPDLimit	Qual
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amsc Client ID: S-21 Prep Date: 4/19/2020	Batcl Analysis E Result 0.80 0.83 0.86 2.6 0.94 I SampT Batcl Analysis E	h ID: 519 Date: 4/2 0.023 0.046 0.046 0.093 Type: MS Date: 4/2	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 35D 337 22/2020	F SPK Ref Val 0 0 0 0 0 Tes F S	RunNo: 68 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101 tCode: EF RunNo: 68 SeqNo: 2:	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317 364496	Units: mg/K HighLimit 119 123 126 130 120 8021B: Volat Units: mg/K	g %RPD illes		
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amso Client ID: S-21 Prep Date: 4/19/2020 Analyte	Batcl Analysis E Result 0.80 0.83 0.86 2.6 0.94 I SampT Batcl Analysis E Result	h ID: 519 Date: 4/2 Date: 4/2 0.023 0.046 0.046 0.093 Fype: MS h ID: 519 Date: 4/2 PQL	22/2020 SPK value 0.9294 0.9294 2.788 0.9294 2.788 0.9294 30 37 22/2020 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	RunNo: 63 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101 tCode: EF RunNo: 63 SeqNo: 2: %REC	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317 364496 LowLimit	Units: mg/K HighLimit 119 123 126 130 120 8021B: Volat Units: mg/K HighLimit	iles %RPD	RPDLimit	
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amsc Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene	Batcl Analysis E 0.80 0.83 0.86 2.6 0.94 I SampT Batcl Analysis E Result 0.84	h ID: 519 Date: 4/2 0.023 0.046 0.046 0.093 Type: MS h ID: 519 Date: 4/2 PQL 0.024	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 307 37 22/2020 SPK value 0.9497	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	RunNo: 63 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101 tCode: Ef RunNo: 63 SeqNo: 2: %REC 88.1	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317 364496 LowLimit 78.5	Units: mg/K HighLimit 119 123 126 130 120 8021B: Volat Units: mg/K HighLimit 119	5 g %RPD illes 5 g %RPD 4.65	RPDLimit 20	
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amso Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene	Batcl Analysis I 0.80 0.83 0.86 2.6 0.94 I SampT Batcl Analysis I Result 0.84 0.87	h ID: 519 Date: 4/2 0.023 0.046 0.093 Type: MS h ID: 519 Date: 4/2 PQL 0.024 0.024 0.047	22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 30 37 22/2020 SPK value 0.9497 0.9497 0.9497	F SPK Ref Val 0 0 0 0 0 Tes 5 SPK Ref Val 0 0 0	RunNo: 64 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101 tCode: Ef RunNo: 64 SeqNo: 2: %REC 88.1 91.7	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317 364496 LowLimit 78.5 75.7	Units: mg/K HighLimit 119 123 126 130 120 8021B: Volat Units: mg/K HighLimit 119 123	illes %RPD 59 %RPD 4.65 4.78	RPDLimit 20 20	
Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2004846-021amsc Client ID: S-21 Prep Date: 4/19/2020 Analyte Benzene Toluene Ethylbenzene	Batcl Analysis I 0.80 0.83 0.86 2.6 0.94 I Samp1 Batcl Analysis I Result 0.84 0.87 0.90	h ID: 519 Date: 4/2 0.023 0.046 0.093 Fype: MS h ID: 519 Date: 4/2 0.024 0.024 0.047 0.047	 337 22/2020 SPK value 0.9294 0.9294 0.9294 2.788 0.9294 337 32/2020 SPK value 0.9497 0.9497 0.9497 0.9497 	F SPK Ref Val 0 0 0 0 0 Tes 5 SPK Ref Val 0 0 0 0	RunNo: 64 SeqNo: 2: %REC 86.0 89.3 92.1 92.0 101 tCode: EF RunNo: 64 SeqNo: 2: %REC 88.1 91.7 94.4	3317 364495 LowLimit 78.5 75.7 74.3 72.9 80 PA Method 3317 364496 LowLimit 78.5 75.7 74.3	Units: mg/K HighLimit 119 123 126 130 120 8021B: Volat Units: mg/K HighLimit 119 123 126	iles % RPD iles % RPD 4.65 4.78 4.68	RPDLimit 20 20 20	

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	74	of 1	11 -
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	1/2021 10:24 ONMENTAL SIS ATORY		Hall Environm TEL: 505-345- Website: wy	490 Albuquero -3975 FAX:)1 Hawkins ue, NM 87 505-345-4	NE 109 Sar 107	nple Log-In C	Page 74
Client Name:	ENSOLUM AZ	ZTEC	Work Order Nur	mber: 200	4846		RcptNo:	1
Received By:	Isaiah Ortiz	4	/18/2020 10:20:0	00 AM		ILC	2-4	
Completed By:	Isaiah Ortiz	4	/18/2020 11:24:4	16 AM		I-C	2~~	
Reviewed By:	drim 4/18	2020						
Chain of Cust	ody							
1. Is Chain of Cu	stody sufficien	tly complete?		Yes	\checkmark	No 🗌	Not Present	
2. How was the s	ample delivere	ed?		Cou	rier			
Log In								
3. Was an attemp	ot made to coo	I the samples?		Yes	\checkmark	No 🗌	NA 🗌	
4. Were all samp	les received at	a temperature of	>0° C to 6.0°C	Yes		No 🗌		
5. Sample(s) in p	roper containe	r(s)?		Yes	\checkmark	No 🗌		
6. Sufficient samp	ole volume for i	ndicated test(s)?		Yes	>	No 🗌		
7. Are samples (e	except VOA and	d ONG) properly p	reserved?	Yes	\checkmark	No 🗌		
8. Was preservati				Yes		No 🗹	NA 🗌	
9. Received at lea	ast 1 vial with h	eadspace <1/4" fo	r AQ VOA?	Yes		No 🗌	NA 🔽	10
10. Were any sam				Yes		No 🔽	~	
11. Does paperwor	k match bottle	lahels?		Yes		No 🗌	# of preserved bottles checked for pH:	4)14
(Note discrepa				103	Ŀ			>12 unless noted)
12. Are matrices co	orrectly identifie	ed on Chain of Cu	stody?	Yes	\checkmark	No 🗌	Adjusted?	
13. Is it clear what	analyses were	requested?		Yes	\checkmark	No 🗌		\backslash
14. Were all holdin (If no, notify cu	-			Yes	\checkmark	No 🗌	Checked by:	
Special Handli		na destructura e constructura de la constructura de la constru						
15. Was client not			order?	Yes		No 🗌	NA 🗸	
Person N	Notified:		Date	e. [and a characteristic designed of		
By Whor	1		Via:		ail 🗌 Ph	ione 🗌 Fax	In Person	
Regardir	P.		v Ia.		~u [] [[[
	structions:	an bila an						
16. Additional rem	narks:							
17. Cooler Inform	nation							
Cooler No	d and a second	Condition Seal	Intact Seal No	Seal D	ate	Signed By	-	
1		ood Yes				- 3	-	

Page 1 of 1

Client:	hain	-of-Cu	ustody Record	Turn-Around	Time:	S-DAY				L.	A			MM		20	NIR		INT	FAI	Kecewe
Client:	Finso	Jump	LC	□ Standard	🕅 Rush			1000											ATC		-
Ima		1		Project Name	e:	27													414		. 8
Mailing	Address	s: 606	S. Rio Corande SuiteA	1000000 VC	al 20-70	Ť		49	01 F			v.hal NE -					om M 87	7109	l		D: 8/1
		N 871		Project #: Se	enotes					05-34							-410				1/20
Phone	'	18 A 1999		3								Α	naly	sis	Req	uest	2				
email o	r Fax#:	KSUMM	ners censolum, com	Project Mana	iger:ksum	mers	1)	0)					SO4			nt)					0:2
QA/QC	Package:						(8021)	MRO)	B's		MS	-				bse					4:50
🛛 🗆 Star	idard		□ Level 4 (Full Validation)				S	DRO /	PCB'		8270SIMS		, PO ₄ ,			nt/A					AIN
	itation:		ompliance	Sampler: P	Deechille		TMB'	-	3082	1 .1)	827		NO ₂ ,		_	ese.					
	AC (Type)	□ Othe	r	On Ice: # of Coolers:	☑ Yes	□ No		RO	es/8	504	0 or	s	NO ₃ , I		OA)	ר) (P	52	£			
		1			(including CF): () 3	-0/ce/03 (°C)	MTB	D(G	Pesticides/8082	thod	831	Meta		(¥	mi-∖	forn	hiorid				
	- 1		(11) at			9(0)03(0)	-	3015	Pes	(Me	by	A 8	B,	S	(Se	Coli	hlu				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 2004846	втех	TPH:8015D(GRO	8081 F	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	U				
4/17/20	1010	S	5-1	1×402 Jur	COG)	-001	X	X									X				
4/17/20	1015	S	S-2	1x402 Jur	(00)	-002	X	X									X	6.1			
4/17/20	1020	S	S-3	1×402 Jar	COUL	-003	X	X					-				X				
4/17/20	1625	S	5-4	1×402 Jor	C00]	-004	X	\times					100		1.101	he .	X	-			
4/17/20	1030	5	5-5	14402 Jor	COG	-005	X	X				- 6			-		Х				
41720	1035	S	5-6	1×412 Ter	cool	-006	X	X								_	\times				
4/17/20	1040	5	5-7	1×402 Jar	CODI	-067	X	X									X				
4/17/20	1045	S	5-8	1×402 Jor	C001	-00%	X	X								1.0	X				
41720	1050	9	5-9	1×402 Jar	CODI	-009	X	X								l Met	X		9		
4/7/20	1055	S	5-10	1×402 Jer	(00)	-010	X	X					1.11				X				
4/17/20	1100	5	5-11	1×407 Jer	C001	-011	X	X								-1	X				
WARDO	1105	5	5-12	1×462500	C051	.07	X	X									X				
Date:	Time:	Relinquish	ed by:	Received by:	Via:	Date Time	Ren	narks	s:	9		PN	1-	Ton	nL	on	7(0	EPR	200)	1	
4/17/20	1445	10	White >	1 Mistr	Walts	4/17/20 1445 Date Time	3-	(DA	54	int		Par	YK	e-1-	P	BZ	120	00	20D) 2/		Page
Date:	Time:	Relinquish	ed by:	Received by:	Via:	'Date Time	TU	Nrn (0100			No	on A	+FI	E-	\mathcal{N}	47	-82	1		e / 3
7/17/20	1753	1 Shu	sthe Walt	I-02	- courin	~ 4/18/20 1620											-1003 224	1			9
	lf necessary	samples sub	omitted to Hall Environmental may be sub	contracted to other a	ccredited laboratorie	es. This serves as notice of this	possi	bility.	Any su	ub-con	tracted	data v	will be	clearl	ly nota	ted on	the ar	nalytica	al repor	t.	E

	hain	-of-Cı	ustody Record	Turn-Around	Time: 3-	DAY]								776 12						Receivo
Client:	Enso	lum,	LLC	□ Standard	∖⊈ Rush			5											NT		01107
Ima				Project Name												tal.co					• 00
Mailing	Address	:10010	S. Rio Grandesüttert	Latere	120-70	7		49	01 H									7109			D: 8/
		M 87		Project #: S			1		el. 50								-410				11/2
Phone #	#: / ·											The other Designation of the local division of the local divisiono	COMPANY OF THE OWNER	_	-	uest					021
email or	Fax#:	KSUM	MISO ersulum com	Project Mana	iger: KSUM	wers	÷	Ô					SO4			int)			de e		0:2
QA/QC F	Package:					_	(8021)	/ MRO)	PCB's		IMS		PO4, 9			Abse					0:24:30 AM
Stan			Level 4 (Full Validation)		20 1.11		TMB's	RO		0	8270SIMS					ent//					AM
Accredit		□ Az Co □ Othe	ompliance r		Duchill FYes	1 No	I ₽	0/1	/808	04.1	or 82		NO_2 ,		A)	Pres	S				
	(Type)			# of Coolers:			MTBE,	(GR	cides	od 5	310 0	Metals	NO ₃ ,		-V0	rm (I	ndes				
				Cooler Temp	(including CF): 0.3	·0 (r) (0.3 (°C)	₩.	TPH:8015D(GRO / DRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	∞	Br, 1	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	100	1			
				Container	Preservative	HEAL No.	BTEX	H:80	81 F	DB (N	Hs I	RCRA	щ	60 (70 (tal C	Cinlo				
	Time	Matrix	Sample Name	Type and #	Туре	2004846	BT	T T	80	Ш	PA	Ř	ບັ	82	82	٩ ۲		\rightarrow	\rightarrow	+	
41920	110	S	S-13	1x Yoz Jor	(00)	-013	X	X									X				
4/17/00	1115	S	5-14	1x yoz Jor	(00)	014	X	X									X			\perp	
4/17/00	1120	S	5-15	1× Yoz Jar	(00)	-015	X	X									X	\square	\square		
YFAD	1125	S	5-16	X Yoz Stor	(00)	-016	X	X					1				X			\perp	
UIFAC	1130	S	5-17	1 × Yoz Jor	(60)	- 017	X	X,									X	\square	\perp	\perp	
Mi7/20	1135	S	5-18	1×402 Jar	(00)	- 018	X	Х									X			\perp	
4/17/20	1140	5	5-19	1 × YOZ JA	(00)	- 019	X	X		_							X				
4/17/20	1145	S	5-20	X 462 Jar	C001	- 026	X	X									X			\perp	
4/17/20	1150	S	S-2	1 x Yoz Jar		- 071	X	Х				_				4.9	X	_	\rightarrow	\perp	
4/17/20	1155	S	5-22	1 × 402 Jar	(00)	- 022	X	X									X			\rightarrow	
4/17/20	1200	S	S-23	1 X YOZ JAR	(00)	- 073	X	X				_		_	-		X,		4	_	
9/17/20 Date:	1205 Time:	Relinquish	ed by:	1 × Yoz Jav Received by:	<u>(60</u>) Via:	Date Time	X	nark							1	-	Х	1+		2	
4/17/20	NUC	M.	ALL	Cha.t.	1.)					0		PC	VV(.	-10	om	Le	sng	(7	P20	D)	P
	Time:	Relinquish	ed by:	Received by:	Via:	Date Time	TI	ma	roun	5		t	04	MAY	- k	2Be	210	300	ر ۱		age
4/17/20	1753	/ Shaw	tullactor	40	Courie	4/08/20 1020	10					1	ion.	At	E -	. IV	97	82	C		Page 76 of
		samples sub	pmitted to Hall Environmental may be subc	ontracted to other a			s possi	bility.	Any sı	ib-con	tracted	l data v	will be	clearl	y nota	ted on	the ar	nalytica	l report	ć.	

Client:	En Address	solur	S, Rio Gance SuiteA	□ Standard Project Name	e: 11 20-7					AI w wkins	NAL ww.ha NE -3975	Illenv - Alt	vironi ouqu ax	5 L menterqu 505-	AE tal.co	3 0 om M 87 -4107	RA 109			Received by OCD: 8/11/2021
	Package: Idard		<i>□ Level 4 (Full Validation)</i>		iger: KSum		TMB's (8021)	RO / MRO)	2 PCB's	(.1) 007001M0		2, PO4, SO4			ent/Absent)					10:24:30 AM
Accredi		□ Az Co □ Other	ompliance 	On Ice: # of Coolers: Cooler Temp	(including CF): ().3	□ No -0 (CF) 6.3(°C)	/-MTBE /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082		RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. ZOUN 846	BTEX	ТРН	8081	EDB	RCR	CI, F	8260	8270	Tota	Û				
4/17/20	1210	S	50-1	1×40250	CO01	-075	X	X	_							X	15			
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Date: VI7/20 Date:	Time: 1445 - Time:	Relinquish	fully	Received by: Misture Received by:	Via: Laet Via:	Date Time	Ren 3	DA DA	y aro	nd	PI Pay No	N- 1 Ke n A	TON Y- PE	n l RE - N	on 321 14:	g (20 782	'EP, 0 21	ROD)	Page 77
117/20	If necessary		Duritted to Hall Environmental may be subo	contracted to other a	- COUVE	09 710000						100	-							of 111

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April 28, 2020

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Lateral 2C 79

OrderNo.: 2004B00

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/25/2020 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2004B00

Date Reported: 4/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM	Client Sample ID: S-25
Project: Lateral 2C 79	Collection Date: 4/24/2020 3:00:00 PM
Lab ID: 2004B00-001	Matrix: MEOH (SOIL) Received Date: 4/25/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	62	60		mg/Kg	20	4/26/2020 10:25:57 AM	52088
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	870	93		mg/Kg	10	4/27/2020 10:03:02 AM	52097
Motor Oil Range Organics (MRO)	500	470		mg/Kg	10	4/27/2020 10:03:02 AM	52097
Surr: DNOP	0	55.1-146	S	%Rec	10	4/27/2020 10:03:02 AM	52097
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/26/2020 8:18:29 PM	52018
Surr: BFB	114	66.6-105	S	%Rec	5	4/26/2020 8:18:29 PM	52018
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	4/26/2020 8:18:29 PM	52018
Toluene	ND	0.25		mg/Kg	5	4/26/2020 8:18:29 PM	52018
Ethylbenzene	ND	0.25		mg/Kg	5	4/26/2020 8:18:29 PM	52018
Xylenes, Total	ND	0.49		mg/Kg	5	4/26/2020 8:18:29 PM	52018
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	5	4/26/2020 8:18:29 PM	52018

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 6

Analytical Report
Lab Order 2004B00

Date Reported: 4/28/2020

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 ENSOLUM
 Client Sample ID: S-26

 Project:
 Lateral 2C 79
 Collection Date: 4/24/2020 3:05:00 PM

 Lab ID:
 2004B00-002
 Matrix: MEOH (SOIL)
 Received Date: 4/25/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	ND	60		mg/Kg	20	4/26/2020 10:38:18 AM	52088
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	720	46		mg/Kg	5	4/27/2020 10:52:00 AM	52097
Motor Oil Range Organics (MRO)	420	230		mg/Kg	5	4/27/2020 10:52:00 AM	52097
Surr: DNOP	88.5	55.1-146		%Rec	5	4/27/2020 10:52:00 AM	52097
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	4/26/2020 8:42:09 PM	52018
Surr: BFB	110	66.6-105	S	%Rec	5	4/26/2020 8:42:09 PM	52018
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.10		mg/Kg	5	4/26/2020 8:42:09 PM	52018
Toluene	ND	0.20		mg/Kg	5	4/26/2020 8:42:09 PM	52018
Ethylbenzene	ND	0.20		mg/Kg	5	4/26/2020 8:42:09 PM	52018
Xylenes, Total	ND	0.41		mg/Kg	5	4/26/2020 8:42:09 PM	52018
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	5	4/26/2020 8:42:09 PM	52018

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

Qualifiers:

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

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

Page 2 of 6

Client: Project:	ENSO Lateral	LUM 2C 79									
Sample ID: M	B-52088	SampT	ype: mt	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PI	BS	Batch	n ID: 52	088	F	RunNo: 6	8426				
Prep Date: 4	4/26/2020	Analysis D	0ate: 4/	26/2020	S	SeqNo: 2	367609	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: L(CS-52088		ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LO		•	n ID: 52		F	RunNo: 6	8426				
Prep Date: 4	4/26/2020	Analysis D	Date: 4/	26/2020	S	SeqNo: 2	367610	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.1	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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

2004B00

28-Apr-20

WO#:

Е Value above quantitation range

ENSOLUM

Client:

QC SUMMARY REPORT Η

Page	<i>82</i>	of	111
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	WO#:	2004B00
Hall Environmental Analysis Laboratory, Inc.		28-Apr-20

Project: Lateral 2	2C 79									
Sample ID: LCS-52097	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 520	097	F	RunNo: 6	8435				
Prep Date: 4/27/2020	Analysis D	ate: 4/2	27/2020	S	SeqNo: 2 :	367989	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	70	130			
Surr: DNOP	4.5		5.000		90.9	55.1	146			
Surr: DNOP Sample ID: MB-52097		ype: ME		Tes			146 8015M/D: Die	esel Range	e Organics	
Sample ID: MB-52097	SampT	ype: ME	BLK			PA Method	-	esel Range	e Organics	
Sample ID: MB-52097 Client ID: PBS	SampT	n ID: 52(3LK 097	F	tCode: El	PA Method 8435	-		e Organics	
Sample ID: MB-52097 Client ID: PBS Prep Date: 4/27/2020	SampT Batch	n ID: 52(3LK 097 27/2020	F	tCode: El RunNo: 6 SeqNo: 2	PA Method 8435	8015M/D: Die		e Organics	Qual
Sample ID: MB-52097 Client ID: PBS Prep Date: 4/27/2020 Analyte	SampT Batch Analysis D	n ID: 52(Date: 4/ 2	3LK 097 27/2020	F	tCode: El RunNo: 6 SeqNo: 2	PA Method 8435 367990	8015M/D: Die Units: mg/K	(g	-	Qual
Sample ID: MB-52097 Client ID: PBS	SampT Batch Analysis D Result	n ID: 52(Date: 4/ 2 PQL	3LK 097 27/2020	F	tCode: El RunNo: 6 SeqNo: 2	PA Method 8435 367990	8015M/D: Die Units: mg/K	(g	-	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
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- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

ENSOLUM

Client:

	WO#:	2004B00
all Environmental Analysis Laboratory, Inc.		28-Apr-20

Project: Lateral	2C 79									
Sample ID: mb-52018	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	n ID: 52	018	F	RunNo: 6	8422				
Prep Date: 4/22/2020	Analysis D	ate: 4/	26/2020	S	SeqNo: 2 :	367394	Units: mg/H	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			
Sample ID: Ics-52018	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 52	018	F	RunNo: 6	8422				
Prep Date: 4/22/2020	Analysis D	ate: 4/	26/2020	S	SeqNo: 2	367395	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	80	120			
Surr: BFB	1100		1000		114	66.6	105			S

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

Page 5 of 6

Released to Imaging: 3/7/2022 10:10:27 AM

Page	84	of	111	
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C	Hall Environmental Analysis Laboratory, Inc.							
Client: Project:	ENSOI Lateral							
Sample ID: m	b-52018	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles					
Client ID: PE	BS	Batch ID: 52018	RunNo: 68422					

		-			-					
Prep Date: 4/22/2020	Analysis [Date: 4/	26/2020	S	eqNo: 2	367486	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	1.0		1.000		101	80	120			
Sample ID: LCS-52018	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 52	018	R	unNo: 6	8422				
Prep Date: 4/22/2020	Analysis [Date: 4/	26/2020	S	eqNo: 2	367487	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
	0.30	0.020	1.000	-						
Toluene	0.90	0.050	1.000	0	92.9	80	120			
				0	92.9 95.0	80 80	120 120			
Toluene Ethylbenzene Xylenes, Total	0.93	0.050	1.000	-						

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
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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

Page 6 of 6

Released to Imaging: 3/7/2022 10:10:27 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis I 4901 H Albuquerque, TEL: 505-345-3975 FAX: 505 Website: www.hallenviron	awkins NE NM 87109 Sa -345-4107	mple Log-In Check List
Client Name: ENSOLUM AZTEC	Work Order Number: 2004B0	0	RcptNo: 1
Received By: Desiree Dominguez	4/25/2020 9:15:00 AM	D	
Completed By: Desiree Dominguez	4/25/2020 9:22:53 AM	TA	
Reviewed By: CINOJ, MATTHIASEN (200	04/25/2020	N	
Chain of Custody			
1. Is Chain of Custody sufficiently complete?	Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?	<u>Client</u>		
Log In			
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	
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)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) properly p	reserved? Yes 🗹	No 🗌	
8. Was preservative added to bottles?	Yes 🗌	No 🔽	NA 🗌
9. Received at least 1 vial with headspace <1/4" fo	or AQ VOA? Yes 🗌	No 🗌	
0. Were any sample containers received broken?	Yes 🗆	No 🗹	
1. Does paperwork match bottle labels?	Yes 🗹	No 🗍	# of preserved bottles checked for pH:
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Cu			(<2 or №12 unless noted) Adjusted?
3. Is it clear what analyses were requested?	stody? Yes ✔ Yes ✔	No 🗌 No 🗍	
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹		Checked by: DAD 4/24/20
<u>pecial Handling (if applicable)</u>			
5. Was client notified of all discrepancies with this	order? Yes	No 🗆	
Person Notified:	Date:		
By Whom:		_ Phone [_] Fax	in Person
Regarding:			
Client Instructions:		- ·	anna an an an ann an ann an ann an ann an a
6. Additional remarks:			
	Intact Seal No Seal Date	Signed By	
1 0.9 Good Yes	The StAT Manual and an and the second and the secon	<u> </u>	_

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Page 1 of 1

Client			ustody Record	Turn-Around		SAMEDAY				ŀ	IAI		EN	V	R	ON	MI	EN	ТА	
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	BTEX ;	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals			Total Coliform (Dr.	ONTAN da C	1 - 2 <i>2</i> 			
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121/20	1747	V	Wheel	Received by:	Waet_	Date Time $\frac{1}{24}/25$ 1747	Ren	narks NE®	s: DAL			Pr Pr	n 14 Ki	To: ey-	n Re	Lon Sala 14=	9 (202	EPG	201)	ł
ate:	Time:		Atta Waller	Received by:	Via: Cowrwr	Date Time 4/25/20 9.15						No	n A	PE	- A	14=	787	21		



May 04, 2020

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

OrderNo.: 2005004

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:

RE: Lateral 2C-79

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/1/2020 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 2005004

Date Reported: 5/4/2020

CLIENT	: ENSOLUM	Client Sample ID: S-27	
Project:	Lateral 2C-79	Collection Date: 4/30/20	20 12:00:00 PM
Lab ID:	2005004-001	Matrix: MEOH (SOIL) Received Date: 5/1/202	0 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	63	60		mg/Kg	20	5/1/2020 9:34:27 AM	52210
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	JME
Diesel Range Organics (DRO)	1200	44		mg/Kg	5	5/1/2020 10:41:07 AM	52208
Motor Oil Range Organics (MRO)	530	220		mg/Kg	5	5/1/2020 10:41:07 AM	52208
Surr: DNOP	118	55.1-146		%Rec	5	5/1/2020 10:41:07 AM	52208
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	580	19		mg/Kg	5	5/1/2020 12:26:09 PM	52195
Surr: BFB	1010	66.6-105	S	%Rec	5	5/1/2020 12:26:09 PM	52195
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.095		mg/Kg	5	5/1/2020 12:26:09 PM	52195
Toluene	0.26	0.19		mg/Kg	5	5/1/2020 12:26:09 PM	52195
Ethylbenzene	0.59	0.19		mg/Kg	5	5/1/2020 12:26:09 PM	52195
Xylenes, Total	7.0	0.38		mg/Kg	5	5/1/2020 12:26:09 PM	52195
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	5	5/1/2020 12:26:09 PM	52195

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 6

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2005004

Date Reported: 5/4/2020

CLIENT	: ENSOLUM	C	Client Sample ID: S-28
Project:	Lateral 2C-79		Collection Date: 4/30/2020 12:05:00 PM
Lab ID:	2005004-002	Matrix: MEOH (SOIL)	Received Date: 5/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	64	60		mg/Kg	20	5/1/2020 9:46:52 AM	52210
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	JME
Diesel Range Organics (DRO)	710	9.7		mg/Kg	1	5/1/2020 10:17:00 AM	52208
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	5/1/2020 10:17:00 AM	52208
Surr: DNOP	110	55.1-146		%Rec	1	5/1/2020 10:17:00 AM	52208
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	300	18		mg/Kg	5	5/1/2020 1:13:05 PM	52195
Surr: BFB	822	66.6-105	S	%Rec	5	5/1/2020 1:13:05 PM	52195
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.089		mg/Kg	5	5/1/2020 1:13:05 PM	52195
Toluene	ND	0.18		mg/Kg	5	5/1/2020 1:13:05 PM	52195
Ethylbenzene	0.35	0.18		mg/Kg	5	5/1/2020 1:13:05 PM	52195
Xylenes, Total	3.8	0.35		mg/Kg	5	5/1/2020 1:13:05 PM	52195
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	5	5/1/2020 1:13:05 PM	52195

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 6

Client:	ENSOLUM						
Project:	Lateral 2C-79						
Sample ID: MB-522	10 SampType	: mblk	Tes	tCode: EPA Method	300.0: Anions		
Client ID: PBS	Batch ID:	52210	F	RunNo: 68572			
Prep Date: 5/1/202	Analysis Date:	5/1/2020	S	SeqNo: 2374227	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	D RPDLimit	Qual
Chloride	ND	1.5					
Sample ID: LCS-52	210 SampType	: Ics	Tes	tCode: EPA Method	300.0: Anions		
Client ID: LCSS	Batch ID:	52210	F	RunNo: 68572			
Prep Date: 5/1/202	Analysis Date:	5/1/2020	S	SeqNo: 2374228	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	D RPDLimit	Qual
Chloride	14	1.5 15.00	0	93.1 90	110		

Qualifiers:

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- 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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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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2005004

04-May-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#:	2005004

04-May-20

Client: Project:	ENSOLU Lateral 20										
Sample ID:	MB-52208	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	h ID: 52	208	F	RunNo: 6	8568				
Prep Date:	5/1/2020	Analysis D	Date: 5/	1/2020	5	SeqNo: 2	372797	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	10								
Motor Oil Range	e Organics (MRO)	ND	50								
Surr: DNOP		8.9		10.00		89.2	55.1	146			
Sample ID:	LCS-52208	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	h ID: 52	208	F	RunNo: 6	8568				
Prep Date:	5/1/2020	Analysis D	Date: 5/	1/2020	5	SeqNo: 2	372798	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	44	10	50.00	0	88.1	70	130			
Surr: DNOP		4.1		5.000		82.1	55.1	146			
Sample ID:	2005004-001AMS	SampT	уре: М	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	S-27	Batch	n ID: 52	208	F	RunNo: 6	8568				
Prep Date:	5/1/2020	Analysis D	Date: 5/	1/2020	S	SeqNo: 2	372805	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	1400	44	44.25	1193	360	47.4	136			S
Surr: DNOP		6.5		4.425		147	55.1	146			S
Sample ID:	2005004-001AMSI) SampT	уре: М	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	S-27	Batch	n ID: 52	208	F	RunNo: 6	8568				
Prep Date:	5/1/2020	Analysis D	Date: 5/	1/2020	S	SeqNo: 2	372806	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	960	46	46.13	1193	-509	47.4	136	34.1	43.4	S
Surr: DNOP		6.2		4.613		134	55.1	146	0	0	

Qualifiers:

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- 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

ENSOLUM

Lateral 2C-79

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: Ics-52195	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 52	2195	R	unNo: 68	8583				
Prep Date: 4/30/2020	Analysis Date: 5	/1/2020	S	eqNo: 2	372944	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		0	94.2	80	120			
Surr: BFB	1100	1000		105	66.6	105			S
Sample ID: mb-52195	SampType: M	BLK	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 52	2195	R	unNo: 68	8583				
Prep Date: 4/30/2020	Analysis Date: 5	5/1/2020	S	eqNo: 2	372945	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0	1							
Surr: BFB	1000	1000		101	66.6	105			
Sample ID: Ics-52191	SampType: L	cs	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 52	2191	R	unNo: 68	8583				
Prep Date: 4/30/2020	Analysis Date: 5	/1/2020	S	eqNo: 2	373046	Units: %Rec	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100	1000		112	66.6	105			S
Sample ID: mb-52191	SampType: M	BLK	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 52	2191	R	unNo: 6	8583				
Prep Date: 4/30/2020	Analysis Date: 5	5/1/2020	S	eqNo: 2	373048	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000	1000		103	66.6	105			-

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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WO#: 2005004

04-May-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	ENSOLUM
Project:	Lateral 2C-79

Sample ID: LCS-52195	SampType: LCS TestCode: EPA Method			1 8021B: Volatiles					
Client ID: LCSS	Batch ID: 52	2195	F	RunNo: 68	3583				
Prep Date: 4/30/2020	Analysis Date: 5	5/1/2020	S	SeqNo: 23	372949	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94 0.025	5 1.000	0	93.6	80	120			
Toluene	0.98 0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.98 0.050	1.000	0	97.6	80	120			
Xylenes, Total	2.9 0.10	3.000	0	97.5	80	120			
Surr: 4-Bromofluorobenzene	0.99	1.000		99.0	80	120			
Sample ID: mb-52195	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 52	2195	F	RunNo: 68	3583				
Prep Date: 4/30/2020	Analysis Date: 5	6/1/2020	S	SeqNo: 23	372950	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.025	5							
Toluene	ND 0.050)							
Ethylbenzene	ND 0.050)							
Xylenes, Total	ND 0.10)							
Surr: 4-Bromofluorobenzene	0.97	1.000		97.2	80	120			
Sample ID: LCS-52191	SampType: L	cs	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 52	2191	F	RunNo: 68	3583				
Prep Date: 4/30/2020	Analysis Date: 5	6/1/2020	S	SeqNo: 23	373083	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		100	80	120			
Sample ID: mb-52191	SampType: M	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 52	2191	F	RunNo: 68	3583				
Prep Date: 4/30/2020	Analysis Date: 5	6/1/2020	S	SeqNo: 23	373085	Units: %Red	;		
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
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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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WO#: 2005004

04-May-20

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-397.	4901 Hawki buquerque, NM 8	ns NE 87109 San -4107	nple Log-In C	heck List
Client Name: ENSOLUM AZTEC	Work Order Numbe	r: 2005004		RcptNo:	1
Received By: Scott Anderson 5/*	1/2020 8:00:00 AM				
Completed By: Desiree Dominguez 5/	1/2020 8:18:14 AM		TD-		
Reviewed By: DAD 5/1/20					
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 🗆	
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 pre	served?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🖌	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes 🗋	No 🗌	NA 🗹	
10. Were any sample containers received broken?		Yes 🗆	No 🗹	# of preserved	
11. Does paperwork match bottle labels?		Yes 🖌	No 🗌	bottles checked for pH:	
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custo	odv2	Yes 🖌	No 🗌	Adjusted?	>12 unless noted)
13. Is it clear what analyses were requested?	ouy:	Yes 🔽			
14. Were all holding times able to be met?		Yes 🗹		Checked by:	245/12
(If no, notify customer for authorization.)			l		RH5/1/2 JR511/20
Special Handling (if applicable)		_	_		Je shire
15. Was client notified of all discrepancies with this c	order?	Yes 🗌	No 🗌	NA 🗹	1
Person Notified:	Date:		:		
By Whom:	Via: [eMail 🗌 F	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:	· ···				
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp ºC Condition Seal In	itact Seal No	Seal Date	Signed By		
1 1.4 Good Not Pres	sent	AND AND AND AND A AND AND AND AND AND AN			

Page 1 of 1

Client: Client: Ensolum LLC Mailing Address: 606, S, Pio Grande	□ Standard XRush 10010 Project Name: Lateral 2C-79 SuiteA	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109
Actec, NM 87410	Project #: See notes	Tel. 505-345-3975 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: KSUMMerS@enSolum, QA/QC Package: ☐ Standard □ Level 4 (Full V		HMB's (8021) / DRO / MRO) 082 PCB's 1) 8270SIMS 8270SIMS esent/Absent)
Accreditation: □ Az Compliance □ NELAC □ Other □ EDD (Type)	Sampler: Pletchilly On Ice: Yes No. # of Coolers: 1	 ベ / - WTBE / TMB's 8015D(GRO / DRO 8015D(GRO / DRO Pesticides/8082 P(Method 504.1) by 8310 or 8270S a 8 Metals A 10 or 8270S A 8 Metals A 10 or 8270S A 10 or 70 4 8
Date Time Matrix Sample Name	Cooler Temp(including CF): $1, 6 - 0, z = 1, 4$ (°C)ContainerPreservativeType and #Type	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) C/A to ride §
430/20 1200 S 5-27	1×462500 0001 -001	
M30/201205 S S-28	1×402500 0001 -007	XXXX
Date: Time: Relinquished by: 4340 1443 How Market Dy: Date: Time: Relinquished by:	Received by: Via: Date Time 4/38/2020 Received by: Via: Date Time	Remarks: SAMEDAY PAYKEY- EB21200
4/20/20 1749 Mustin Wast	SPA CDO 5/1/20 8:00	Non APE - N47821



APPENDIX G

Regulatory Correspondence

From:	Long, Thomas
То:	"Yahoo Warning"; "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"
Cc:	<u>"Kurt.sandoval@bia.gov"; Stone, Brian</u>
Subject:	FW: [EXTERNAL] Re: [EXT] Re: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768
Date:	Wednesday, May 6, 2020 9:24:00 AM
Attachments:	potassium permanganate.pdf

Keith,

Sorry, I accidentally hit send before I was finished typing. Please find the attached SDS for the potassium permanganate. We have the contractor available to apply the solution to the Lateral 2C-79 excavation on Friday. They should start about 9:00 a.m. After applying the potassium permanganate the excavation will be backfilled. 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: Long, Thomas
Sent: Wednesday, May 6, 2020 9:20 AM
To: 'Yahoo Warning' <kcmanwell@yahoo.com>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'
<Cory.Smith@state.nm.us>
Cc: 'Kurt.sandoval@bia.gov' <Kurt.sandoval@bia.gov>; Stone, Brian <bmstone@eprod.com>
Subject: RE: [EXTERNAL] Re: [EXT] Re: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069
-107.169768

Keith,

Please find the attached

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: Yahoo Warning <<u>kcmanwell@yahoo.com</u>>
Sent: Tuesday, May 5, 2020 2:03 PM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Subject: [EXTERNAL] Re: [EXT] Re: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

[Use caution with links/attachments] Thomas,

yes to your question about fertilizer, include an MSDS to me via email. when are we back filling the 2C-79?

Thnx, KC

On Tuesday, May 5, 2020, 8:19:04 AM MDT, Long, Thomas <tp>tilong@eprod.comwrote:

Keith,

Would you still like a potassium permanganate solution applied to the excavation prior to backfilling?

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: Monday, May 4, 2020 3:23 PM
To: Yahoo Warning <<u>kcmanwell@yahoo.com</u>>; Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Kurt Sandoval <<u>kurt.sandoval@bia.gov</u>>
Subject: [EXTERNAL] RE: [EXT] Re: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

[Use caution with links/attachments]

Tom,

Please include Keith's approval in your final C-141.

Thank you,

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: Yahoo Warning <<u>kcmanwell@yahoo.com</u>>
Sent: Monday, May 4, 2020 3:05 PM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Kurt Sandoval <<u>kurt.sandoval@bia.gov</u>>; Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Subject: [EXT] Re: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Thomas,

On behalf of Jicarilla Apache Nation Environmental Protection Office(JAN-EPO) we are in agreement with the proposed closure recommendation on behalf of Enterprise lateral 2C-79. As mentioned during our conversation, the safety of personnel is of Great importance and the protection of ground water is considered. JAN-EPO has given permission to continue with the proposed closure method. Please include in your plan all we have discussed, should you have any questions or comments please contact myself at 505-330-8031 or e-mail. Thank You and have a Great week.

Thank You,

K.C. Manwell, Environmental Specialist

Jicarilla Apache Nation Environmental Protection Office

On Monday, May 4, 2020, 11:33:57 AM MDT, Long, Thomas <<u>tilong@eprod.com</u>> wrote:

Keith/Cory,

Please find the attached site sketch and laboratory reports for the Lateral 2C-79 excavation. We still have soil samples exceeding the NOMCOD Tier I standards. S-13 and S-14 (side walls) and S-27 and S-28 (base at 36 feet below ground surface). It is my understanding that Jicarilla EPO would like to close this release site by an alternative closure method. This release site is currently a NMOCD Tier I remediation site based on the distance to a surface water feature (blue line on a Topo Map). Enterprise has located Jicarilla O 3E BGT registration within 2.3 miles of the release site. No catholic protection wells were located with 5 miles of the release site. The depth to water at the Jicarilla O 3E is documented at 101 feet below ground surface. The Jicarilla O3E is also located near major wash where groundwater is more likely to occur swallower, unlike the Lateral 2C-79 release site. The Lateral 2C-79 release site has a surface elevation of 7,182 feet and the Jicarilla O 3E has a surface elevation of 7, 080 feet. That is a difference of 102 feet. Based off this information, the anticipated depth to water at the Lateral 2C-79 release site would be 203 feet below ground surface. Entperise is requesting a site ranking/remediation standard variance for the Lateral 2C-79 release site. Enterprise requests this release site be closed per the NMOD Tier II standard with 10 ppm Benzene, 50 ppm BTEX, 2, 500 ppm TPH. Please acknowledge acceptance of this variance request. 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: Long, Thomas
Sent: Wednesday, April 29, 2020 3:21 PM
To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD
(Cory.Smith@state.nm.us)' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith/Cory,

This is a follow up to our phone conversation earlier. Enterprise will now be collecting soil samples for laboratory analysis at the Lateral 2C-79 excavation tomorrow April 30, 2020 at 10:00 a.m. If you have any questions, please call.

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: Wednesday, April 29, 2020 1:38 PM
To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD
(Cory.Smith@state.nm.us)' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith/Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Thursday, April 30, 2020 at 2:00 p.m. at the Lateral 2C-79 excavation. 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: Tuesday, April 28, 2020 2:43 PM
To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD
(Cory.Smith@state.nm.us)' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith/Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Wednesday, April 29, 2020 at 2:00 p.m. We did not continue remediation activities today as that field personnel had other duties. 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: Long, Thomas
Sent: Monday, April 27, 2020 11:25 AM
To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD
(Cory.Smith@state.nm.us)' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith/Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis on Tuesday, April 28, 2020 at 2:00 p.m. In addition, we are waiting for the lab report for the samples collected last Friday. 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: Long, Thomas

Sent: Thursday, April 23, 2020 9:13 AM To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)' <<u>Cory.Smith@state.nm.us</u>> Cc: 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>; 'Hobson Sandoval' <<u>hsandoval2012@gmail.com</u>>; Stone, Brian <<u>bmstone@eprod.com</u>> Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith/Cory,

This email is to notify you that Entperise will continue the remediation activities at the Lateral 2C-79 release site tomorrow. In addition, Entperise anticipates collecting soil samples for laboratory analysis tomorrow, April 24, 2020 at 2:00 p.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: Long, Thomas
Sent: Thursday, April 23, 2020 8:32 AM
To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD
(Cory.Smith@state.nm.us)' <<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>; 'Hobson
Sandoval' <<u>hsandoval2012@gmail.com</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith/Cory,

Please find the attached site sketch and lab report for the Lateral 2C-79 excavation. All sample results are below NMOCD Tier I remediation standards except for S-13 (138 ppm TPH), S-14 (164 ppm TPH), S-17 (152 ppm TPH) and S-18 (145 ppm TPH). Enterprise will excavate more in these areas and then resample. Entperise will notify you when samples are anticipated to be collected for laboratory analysis. 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: Long, Thomas
Sent: Thursday, April 16, 2020 2:01 PM
To: 'kcmanwell@yahoo.com' <<u>kcmanwell@yahoo.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Keith,

Please see the notification that I sent to Hobson Sandoval, Kurt Sandoval and NMOCD I earlier 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: Long, Thomas
Sent: Thursday, April 16, 2020 12:36 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Hobson Sandoval'
<<u>hsandoval2012@gmail.com</u>>; 'Kurt.sandoval@bia.gov' <<u>Kurt.sandoval@bia.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Cory/Hobson/Kurt,

This email is to notify you Entperise will be collecting soil samples for laboratory analysis at the Lateral 2C-79 excavation tomorrow, April 17, 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: Long, Thomas
Sent: Thursday, April 9, 2020 4:05 PM
To: '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>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Cory,

Please see the correspondence to Jicarilla Apache Tribe below. This release became reportable today. I will submit the Initial C-141. I will also keep you informed as to when we will collect soil samples for laboratory analysis. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

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505-215-4727 (Cell)

tjlong@eprod.com



From: Long, Thomas
Sent: Thursday, April 9, 2020 7:48 AM
To: 'Hobson Sandoval' <<u>hsandoval2012@gmail.com</u>>; 'Kurt.sandoval@bia.gov'
<<u>Kurt.sandoval@bia.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: FW: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Hobson,

This is a follow up to our phone conversation this morning. Enterprise will begin the remediation activities at the Lateral 2C-79 release site today. I will let you know when we will be collecting soil samples for laboratory analysis. 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: Long, Thomas
Sent: Tuesday, April 7, 2020 11:51 AM
To: 'Hobson Sandoval' <<u>hsandoval2012@gmail.com</u>>; 'Kurt.sandoval@bia.gov'
<<u>Kurt.sandoval@bia.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: Lateral 2C-79 - UL C Section 4 T22N R3W; 36.17069 -107.169768

Hobson/Kurt,

This email is to notify you that Enterprise had a release of condensate on the Lateral 2C-79 pipeline yesterday. An area of approximately five feet in diameter was affected by the release fluids. No washes were affected. The release site is located at UL C Section 4 T22N R3W; 36.17069 -107.169768. I have attached a picture for reference. I will keep you informed as to when we will schedule remediation activities. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

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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:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	41280
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	3/7/2022

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Action 41280