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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **151618**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)*: **NVF1836031460**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.893767** Longitude **-107.898126** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Trunk MD 16 Inch**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **11/29/2018**	Serial Number *(if applicable)*: **NA**

Unit Letter	Section	Township	Range	County
P	**17**	**31N**	**10W**	**San Juan**

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Marcotte, Donna R Trust)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **3-5 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **447.89 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On November 29, 2018, Enterprise dispatched a technician to investigate a possible leak on the Trunk MD 16 Inch pipeline. The leak was confirmed and the pipeline was isolated, depressurized, locked out and tagged out. An area of approximately four feet in diameter was impacted with condensate. Enterprise determined this release reportable per NMOCD regulation on December 6, 2018 after receipt of laboratory analysis. This release was required to be remediated to the most stringent NMOCD remediation standard (10 ppm Benzene, 50 ppm BTEX and 100 ppm TPH). With a time extension approval from NMOCD, repairs are remediation were completed on July 12, 2019. The final excavation dimensions measured approximately 11 feet long by 5 feet wide by 5 feet deep. Approximately 380 barrels of hydrocarbon impacted soil were hydro-excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this “Final.” C-141.

Form C-141
Page 2

State of New Mexico
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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields Title: Director, Environmental

Signature: Jon E. Fields Date: 10/31/19

email: jefields@eprod.com Telephone: (713) 381-6684

OCD Only

Received by: OCD Date: 11/8/2019

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: Cory Date: 2/14/2020

Printed Name: Cory Title: Environmental Specialist

ENSOLUM

CLOSURE REPORT

Property:

Trunk MD (2018) Pipeline Release
SE ¼, S17 T31N R10W
San Juan County, New Mexico

September 30, 2019
Ensolum Project No. 05A1226017

Prepared for:

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

Prepared by:

Chad D'Aponti
Field Environmental Scientist

Ranee Deechilly
Environmental Scientist

Kyle Summers, CPG
Sr. Project Manager

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LIST OF APPENDICES

ENSOLUM

CLOSURE REPORT

Trunk MD (2018) Pipeline Release
SE ¼, S17 T31N R10W
San Juan County, New Mexico

Ensolum Project No. 05A1226017

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trunk MD (2018) Pipeline Release (Site)
Location:	36.893767° North, 107.898126° West Southeast (SE) ¼ of Section 17, Township 31 North, Range 10 West San Juan County, New Mexico
Property:	Private Land (Marcotte Donna R Trust)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 29, 2018, a release of natural gas occurred from the Trunk MD pipeline. On November 30, 2018, Enterprise performed initial response activities by removing visibly impacted material from the ground surface and performing temporary pipeline repairs. Further remediation activities were postponed due to adverse weather and ground conditions with approval from the New Mexico EMNRD OCD. On July 2, 2019, while the Val Verde Plant was shut down for maintenance, Enterprise resumed activities to remediate petroleum hydrocarbon impact resulting from the release.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

- One (1) water well (SJ 0198) was identified within a one-half mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database with a depth to water of 97 feet below grade surface (bgs).

- Two (2) cathodic-protection wells were identified within one-half mile of the Site. Data from the Scott #4A cathodic protection well (Unit SE, Sec 17 T31N R10W), located approximately 0.2 miles from the Site, indicates water from 160 feet bgs to 180 feet bgs. Data from the Scott #8 cathodic protection well (Unit I, Sec 17 T31N R1W), located approximately 0.2 miles from the Site, indicates water at 130 feet bgs.
- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is 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 NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On November 29, 2018, a release of natural gas occurred from the Trunk MD pipeline. On November 30, 2018, Enterprise performed initial response activities by removing visibly impacted material from the ground surface and performing temporary pipeline repairs. Further remediation activities were postponed due to adverse weather and ground conditions with approval from the New Mexico EMNRD OCD. During July 2019, while the Val Verde Plant was shut down for maintenance, Enterprise resumed activities to remediate

petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Riley Industrial Services, Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 11 feet long and five (5) feet wide. The maximum depth of the excavation measured approximately five (5) feet bgs.

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

A total of approximately 380 barrels (bbls) of hydro-excavation soil cuttings and water were transported to Industrial Ecosystems, Inc. (IEI) on Crouch Mesa, near Aztec, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. The excavation is still partially open, awaiting permanent pipeline repairs. A cellar box was placed in the excavation to access the Petro-sleeve, until final pipeline repairs can be conducted. The excavation will be backfilled with clean, imported fill and contoured to the surrounding grade once permanent pipeline repairs are completed. If requested, Enterprise will re-seed the Site with a seeding mixture approved by the landowner at the beginning of the next favorable growing season.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of six (6) composite soil samples (S-1 through S-6), comprised of five (5) aliquots each, from the primary hydro-excavation. A clean hand auger was utilized to obtain fresh aliquots from each area of the hydro-excavation. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling events, although a New Mexico EMNRD OCD representative was not on-Site during the sampling events. Soils associated with composite soil sample S-2 were removed from the Site and transported to the IEI landfarm for disposal/remediation.

First Sampling Event
The pipeline repair excavation was initially sampled to evaluate potential petroleum hydrocarbon impact. Composite soil samples S-1 (0' to 5'), S-2 (0' to 5'), S-3 (0' to 5'), S-4 (0' to 5') were collected from the sidewalls of the hydro-excavation. Composite soil sample S-5 (5') was collected from the floor of the excavation. Analytical results from composite soil sample S-2 (sidewall) from the hydro-excavation indicated a New Mexico EMNRD OCD closure standard exceedance. In response to the data exceedance, the hydro-excavation was extended to remove petroleum hydrocarbon impact. Soils associated with composite soil sample S-2 were removed by excavation and transported to the IEI landfarm for disposal/remediation.

Second Sampling Event
Subsequent to the extension of the hydro-excavation, composite soil sample S-6 (0' to 5'), was collected from the sidewalls of the southern extended hydro-excavation.

Soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished

to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the composite soil samples (S-1, and S-3 through S-6) to the applicable New Mexico EMNRD OCD closure criteria. Soils associated with composite soil sample S-2 were removed from the Site and transported to IEI 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 in concentrations greater than the laboratory PQLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).

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

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for composite soil sample S-4, collected from soils remaining at the Site, indicates a chloride concentration of 78 mg/kg, which is less than the New Mexico EMNRD OCD closure criteria of 600 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 in concentrations greater than laboratory PQLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

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

7.0 RECLAMATION AND RE-VEGETATION

The excavation was partially backfilled with imported fill and then contoured to the surrounding grade. Enterprise will fully backfill the excavation once permanent pipeline repairs are completed. Enterprise will re-seed the Site with an approved seeding mixture if requested by the landowner.

8.0 FINDINGS AND RECOMMENDATION

On November 29, 2018, a release of natural gas occurred from the Trunk MD pipeline. On November 30, 2018, Enterprise performed initial response activities by removing visibly impacted material from the ground surface and performing temporary pipeline repairs. Further remediation activities were postponed due to adverse weather and ground conditions with approval from the New Mexico EMNRD OCD. On July 2, 2019, while the Val Verde Plant was shut down for maintenance, Enterprise resumed activities to remediate petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- A total of six (6) composite soil samples were collected from the hydro-excavation for laboratory analyses. Based on soil laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 380 bbls of hydro-excavation soil cuttings and water were transported to the IEI landfarm on Crouch Mesa, near Aztec, New Mexico for disposal/remediation.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Additional Limitations

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

9.3 Reliance

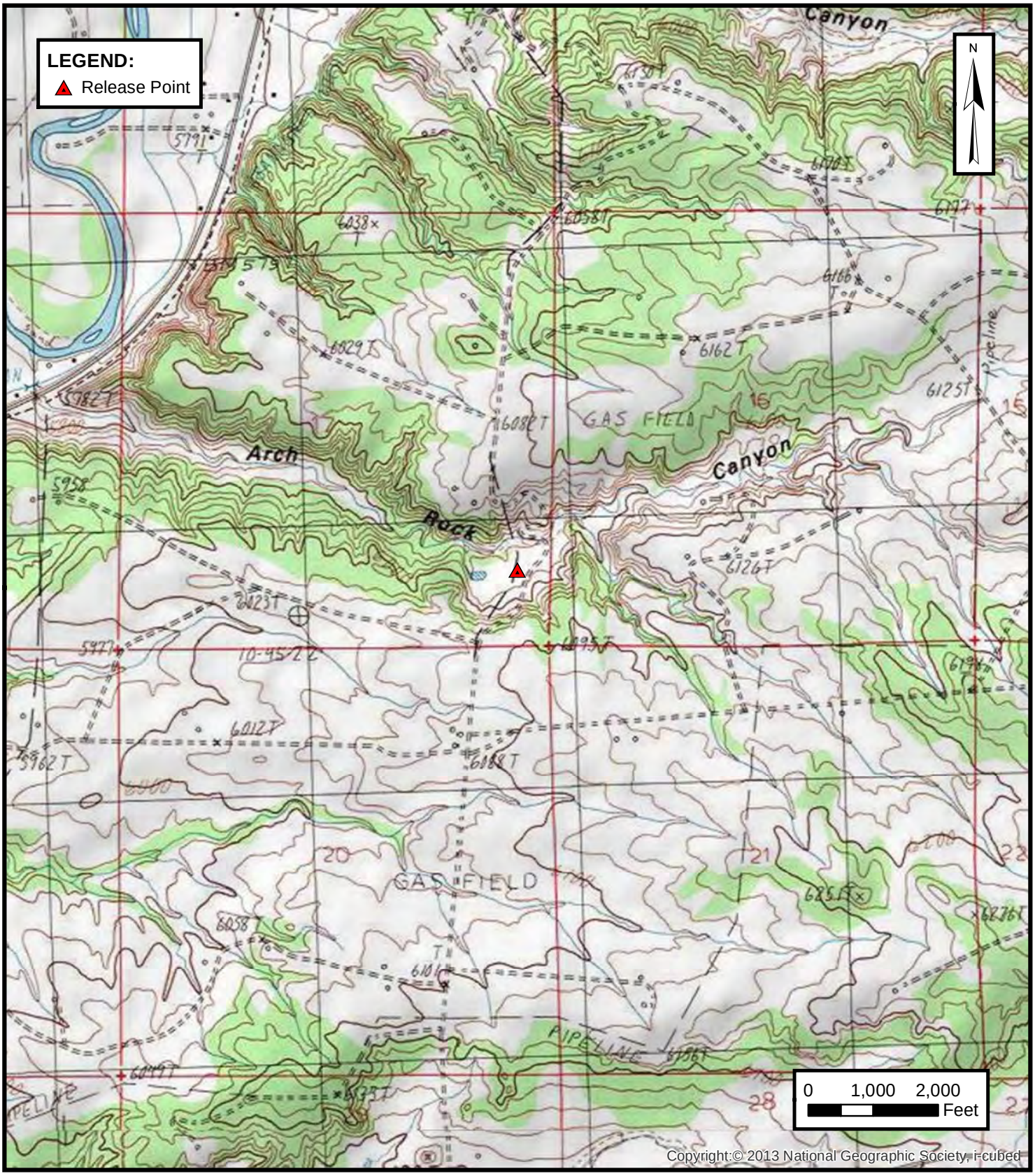
This report has been prepared for the exclusive use of Enterprise Products Operating LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Products Operating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

Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK MD (2018) PIPELINE RELEASE
SE ¼ , S17 T31N R10W, San Juan County, New Mexico
36.893767° N, 107.898126° W

PROJECT NUMBER: 05A1226017

FIGURE
1

ENSOLUM
Environmental & Hydrogeologic Consultants

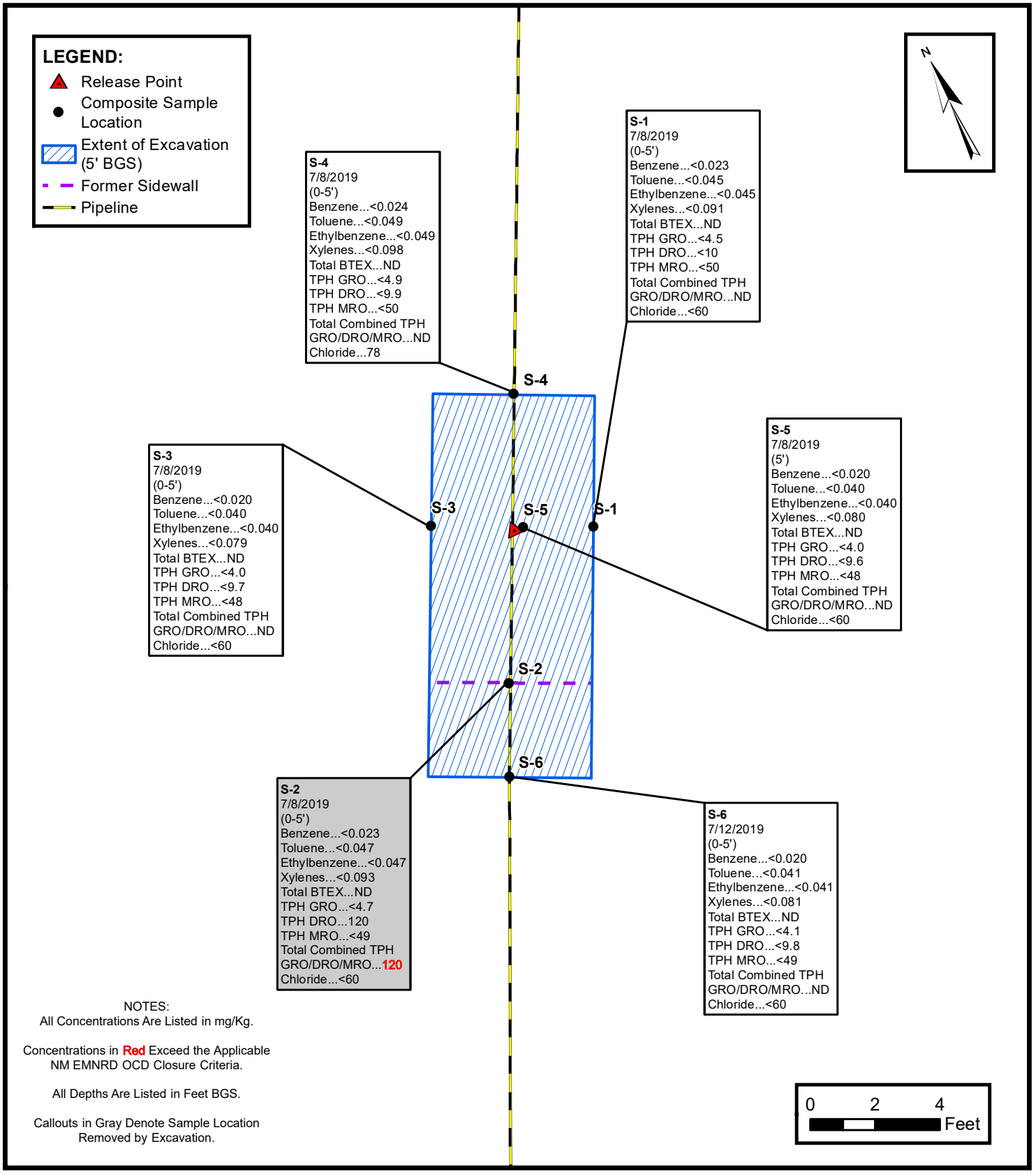
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK MD (2018) PIPELINE RELEASE
SE ¼ , S17 T31N R10W, San Juan County, New Mexico
36.893767° N, 107.898126° W

PROJECT NUMBER: 05A1226017

FIGURE

2



ENSOLUM
Environmental & Hydrogeologic Consultants

SITE MAP

ENTERPRISE FIELD SERVICES, LLC
TRUNK MD (2018) PIPELINE RELEASE
SE ¼ , S17 T31N R10W, San Juan County, New Mexico
36.893767° N, 107.898126° W

PROJECT NUMBER: 05A1226017

FIGURE
3

ENSOLUM

APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Trunk MD Pipeline

3. Location of Material (Street Address, City, State or ULSTR):
Unit P Section 17 T 31 N R9W; 36.893767, -107.898126

7/11/19 - 45 BBLS
7/3/19 - 70001

4. Source and Description of Waste:
Source: Hydro excavation Spoils from a Leak from a Natural Gas Gathering Line
Description: Soil impacted with Natural Gas Liquids (Condensate and Water)
Estimated Volume 80 yd^3 (bbls) Known Volume (to be entered by the operator at the end of the haul) 135 yd^3 (bbls)

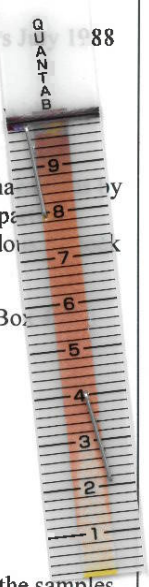
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long), representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 19[illegible]88 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed [illegible] exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☑ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste ha[illegible]y characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, pa[illegible] subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardo[illegible]k the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Bo[illegible]



GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 7-1-19, representative for Enterprise Products Operating authorizes IEI, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Celia Sanchez, representative for IEI IEI, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Riley Industrial

OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * **Permit #: NM 01-0010B**
Address of Facility: **#49 CR 2150 Aztec, New Mexico**

CL-98
PH-8

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☑ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Celia Sanchez TITLE: Clerk DATE: 7/2/19

SIGNATURE: Celia Sanchez TELEPHONE NO.: 505-632-1782
Surface Waste Management Facility Authorized Agent

7/1/19

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 Re
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Trunk MD Pipeline

3. Location of Material (Street Address, City, State or ULSTR):
Unit P Section 17 T 31 N R9W; 36.893767, -107.898126

4. Source and Description of Waste:
Source: Hydro excavation Spoils from a Leak from a Natural Gas Gathering Line
Description: Soil impacted with Natural Gas Liquids (Condensate and Water)
Estimated Volume 80 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 130 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long), representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☒ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 11-30-18, representative for Enterprise Products Operating authorizes IEI, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Celia S, representative for IEI, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: TBD CNJ

OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * **Permit #: NM 01-0010B**
Address of Facility: **#49 CR 2150 Aztec, New Mexico**

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Cl- <128
PH-7

Waste Acceptance Status:

☑ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Celia Sanchez TITLE: Clerk DATE: 11/30/18

SIGNATURE: Celia Sanchez TELEPHONE NO.: 505-632-1782
Surface Waste Management Facility Authorized Agent

11/30/18

ENSOLUM

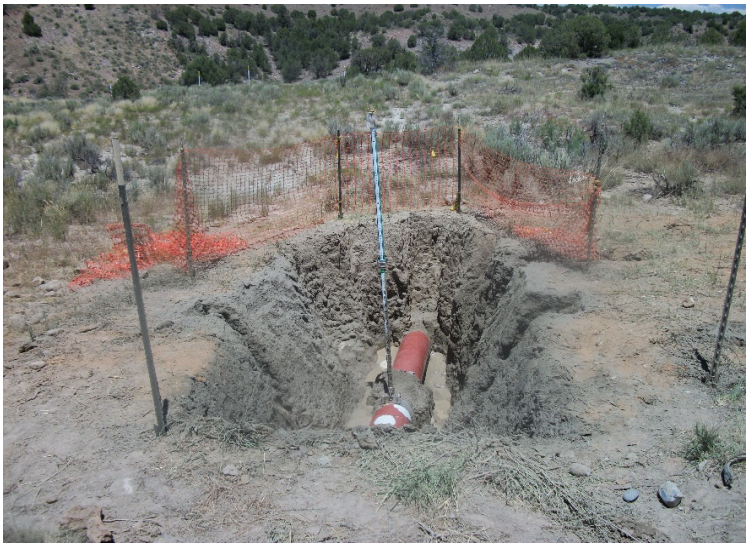
APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Trunk MD (2018) Pipeline Release
Ensolum Project No. 05A1226017

ENSOLUM

Photograph 1 Photograph Description: View of the initial excavation.	
Photograph 2 Photograph Description: View of the final excavation.	
Photograph 3 Photograph Description: View of the final excavation.	

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Trunk MD (2018) Pipeline Release
Ensolum Project No. 05A1226017

ENSOLUM

Photograph 4 Photograph Description: View of the final excavation after initial restoration. A cellar box was placed in the excavation to access the Petro-sleeve until final pipeline repairs can be conducted.	
Photograph 5 Photograph Description: View of the final excavation after initial restoration. A cellar box was placed in the excavation to access the Petro-sleeve until final pipeline repairs can be conducted.	

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APPENDIX D

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Trunk MD (2018) Pipeline Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Closure Criteria				**10**	**NE**	**NE**	**NE**	**50**				**100**	**600**
Excavation Composite Soil Samples Removed by Hydro-Excavation													
S-2	7.08.19	C	0 to 5	<0.023	<0.047	<0.047	<0.093	ND	<4.7	120	<49	**120**	<60
Excavation Composite Soil Samples													
S-1	7.08.19	C	0 to 5	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<10	<50	ND	<60
S-3	7.08.19	C	0 to 5	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<9.7	<48	ND	<60
S-4	7.08.19	C	0 to 5	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.9	<50	ND	78
S-5	7.08.19	C	5	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.6	<48	ND	<60
S-6	7.15.19	C	0 to 5	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.8	<49	ND	<60

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

ND = Not Detected above the Practical Quantitation Limits

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX E

Laboratory Data Sheets & Chain of Custody Documentation

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

July 11, 2019

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

RE: Trunk MD 2018 OrderNo.: 1907347

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/9/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1907347**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: Trunk MD 2018
Collection Date: 7/8/2019 8:00:00 AM
Lab ID: 1907347-001 **Matrix:** SOIL **Received Date:** 7/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/9/2019 11:20:05 AM	46066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/9/2019 10:14:48 AM	46063
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2019 10:14:48 AM	46063
Surr: DNOP	103	70-130		%Rec	1	7/9/2019 10:14:48 AM	46063
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	7/9/2019 11:32:05 AM	46057
Surr: BFB	101	73.8-119		%Rec	1	7/9/2019 11:32:05 AM	46057
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/9/2019 11:32:05 AM	46057
Toluene	ND	0.045		mg/Kg	1	7/9/2019 11:32:05 AM	46057
Ethylbenzene	ND	0.045		mg/Kg	1	7/9/2019 11:32:05 AM	46057
Xylenes, Total	ND	0.091		mg/Kg	1	7/9/2019 11:32:05 AM	46057
Surr: 4-Bromofluorobenzene	89.8	80-120		%Rec	1	7/9/2019 11:32:05 AM	46057

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1907347**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Trunk MD 2018 **Collection Date:** 7/8/2019 8:05:00 AM
Lab ID: 1907347-002 **Matrix:** SOIL **Received Date:** 7/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/9/2019 11:32:30 AM	46066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	7/9/2019 10:39:13 AM	46063
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2019 10:39:13 AM	46063
Surr: DNOP	107	70-130		%Rec	1	7/9/2019 10:39:13 AM	46063
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/9/2019 11:54:42 AM	46057
Surr: BFB	103	73.8-119		%Rec	1	7/9/2019 11:54:42 AM	46057
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/9/2019 11:54:42 AM	46057
Toluene	ND	0.047		mg/Kg	1	7/9/2019 11:54:42 AM	46057
Ethylbenzene	ND	0.047		mg/Kg	1	7/9/2019 11:54:42 AM	46057
Xylenes, Total	ND	0.093		mg/Kg	1	7/9/2019 11:54:42 AM	46057
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	7/9/2019 11:54:42 AM	46057

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1907347**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Trunk MD 2018
Collection Date: 7/8/2019 8:10:00 AM
Lab ID: 1907347-003 **Matrix:** SOIL **Received Date:** 7/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/9/2019 11:44:55 AM	46066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/9/2019 11:03:52 AM	46063
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2019 11:03:52 AM	46063
Surr: DNOP	96.2	70-130		%Rec	1	7/9/2019 11:03:52 AM	46063
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/9/2019 12:17:30 PM	46057
Surr: BFB	99.0	73.8-119		%Rec	1	7/9/2019 12:17:30 PM	46057
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/9/2019 12:17:30 PM	46057
Toluene	ND	0.040		mg/Kg	1	7/9/2019 12:17:30 PM	46057
Ethylbenzene	ND	0.040		mg/Kg	1	7/9/2019 12:17:30 PM	46057
Xylenes, Total	ND	0.079		mg/Kg	1	7/9/2019 12:17:30 PM	46057
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	7/9/2019 12:17:30 PM	46057

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1907347**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Trunk MD 2018 **Collection Date:** 7/8/2019 8:15:00 AM
Lab ID: 1907347-004 **Matrix:** SOIL **Received Date:** 7/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	78	60		mg/Kg	20	7/9/2019 11:57:20 AM	46066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2019 11:28:26 AM	46063
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2019 11:28:26 AM	46063
Surr: DNOP	98.2	70-130		%Rec	1	7/9/2019 11:28:26 AM	46063
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2019 12:40:10 PM	46057
Surr: BFB	99.5	73.8-119		%Rec	1	7/9/2019 12:40:10 PM	46057
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/9/2019 12:40:10 PM	46057
Toluene	ND	0.049		mg/Kg	1	7/9/2019 12:40:10 PM	46057
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2019 12:40:10 PM	46057
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2019 12:40:10 PM	46057
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	7/9/2019 12:40:10 PM	46057

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1907347**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Trunk MD 2018
Collection Date: 7/8/2019 8:20:00 AM
Lab ID: 1907347-005 **Matrix:** SOIL **Received Date:** 7/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/9/2019 12:09:44 PM	46066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/9/2019 11:53:10 AM	46063
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2019 11:53:10 AM	46063
Surr: DNOP	94.8	70-130		%Rec	1	7/9/2019 11:53:10 AM	46063
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/9/2019 1:02:47 PM	46057
Surr: BFB	101	73.8-119		%Rec	1	7/9/2019 1:02:47 PM	46057
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/9/2019 1:02:47 PM	46057
Toluene	ND	0.040		mg/Kg	1	7/9/2019 1:02:47 PM	46057
Ethylbenzene	ND	0.040		mg/Kg	1	7/9/2019 1:02:47 PM	46057
Xylenes, Total	ND	0.080		mg/Kg	1	7/9/2019 1:02:47 PM	46057
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	7/9/2019 1:02:47 PM	46057

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907347**

11-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

Sample ID: **MB-46066**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **46066**	RunNo: **61239**
Prep Date: **7/9/2019**	Analysis Date: **7/9/2019**	SeqNo: **2076918** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-46066**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **46066**	RunNo: **61239**
Prep Date: **7/9/2019**	Analysis Date: **7/9/2019**	SeqNo: **2076919** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1907347**
11-Jul-19

Client: ENSOLUM
Project: Trunk MD 2018

Sample ID: **LCS-46063** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **46063** RunNo: **61236**
Prep Date: **7/9/2019** Analysis Date: **7/9/2019** SeqNo: **2075888** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	63.9	124			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: **MB-46063** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **46063** RunNo: **61236**
Prep Date: **7/9/2019** Analysis Date: **7/9/2019** SeqNo: **2075889** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.0	70	130			

Sample ID: **1907347-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1** Batch ID: **46063** RunNo: **61236**
Prep Date: **7/9/2019** Analysis Date: **7/9/2019** SeqNo: **2076760** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	9.7	48.64	7.731	116	57	142			
Surr: DNOP	5.3		4.864		110	70	130			

Sample ID: **1907347-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1** Batch ID: **46063** RunNo: **61236**
Prep Date: **7/9/2019** Analysis Date: **7/9/2019** SeqNo: **2076761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.1	45.58	7.731	91.9	57	142	25.2	20	R
Surr: DNOP	4.7		4.558		103	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907347**

11-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

Sample ID: **MB-46057** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **46057** RunNo: **61243**

Prep Date: **7/8/2019** Analysis Date: **7/9/2019** SeqNo: **2076306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	73.8	119			

Sample ID: **LCS-46057** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **46057** RunNo: **61243**

Prep Date: **7/8/2019** Analysis Date: **7/9/2019** SeqNo: **2076307** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.3	80.1	123			
Surr: BFB	1100		1000		112	73.8	119			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907347**

11-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

Sample ID: **MB-46057**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **46057**	RunNo: **61243**
Prep Date: **7/8/2019**	Analysis Date: **7/9/2019**	SeqNo: **2076314** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.5	80	120			

Sample ID: **LCS-46057**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **46057**	RunNo: **61243**
Prep Date: **7/8/2019**	Analysis Date: **7/9/2019**	SeqNo: **2076315** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1907347 RcptNo: 1

Received By: Anne Thorne 7/9/2019 8:10:00 AM
Completed By: Anne Thorne 7/9/2019 8:39:44 AM
Reviewed By: ENM 7/9/19

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)
Adjusted? ____
Checked by: ____
7/09/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date ____
By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: ____
Client Instructions: ____

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 7/9/19

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 7-9-19

Project Name: Trunk MD (2018)

Project #: 05A1226017

Project Manager: K Summers

Sampler: C DeApodaca

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.7-0.5=2.2°C CF

HEAL No. 1907347

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7/8/19	800	S	S-1	1 4oz Jar	Cool	001	Y	X					X			
	805		S-2			002										
	810		S-3			003										
	815		S-4			004										
	820		S-5			005										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/8/19	1457				7/8/19	1457
7/8/19	1741				07/09/19	

Remarks: Pay Key RB21200
PM Tom Long

Sarah Sung

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 19, 2019

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

RE: Trunk MD 2018 OrderNo.: 1907813

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/17/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1907813**
Date Reported: **7/19/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-6
Project: Trunk MD 2018
Collection Date: 7/15/2019 11:00:00 AM
Lab ID: 1907813-001 **Matrix:** SOIL **Received Date:** 7/17/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	7/17/2019 11:34:01 AM	46223
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2019 9:48:30 AM	46222
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2019 9:48:30 AM	46222
Surr: DNOP	102	70-130		%Rec	1	7/17/2019 9:48:30 AM	46222
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	7/17/2019 9:55:10 AM	R61440
Surr: BFB	87.6	73.8-119		%Rec	1	7/17/2019 9:55:10 AM	R61440
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/17/2019 9:55:10 AM	B61440
Toluene	ND	0.041		mg/Kg	1	7/17/2019 9:55:10 AM	B61440
Ethylbenzene	ND	0.041		mg/Kg	1	7/17/2019 9:55:10 AM	B61440
Xylenes, Total	ND	0.081		mg/Kg	1	7/17/2019 9:55:10 AM	B61440
Surr: 4-Bromofluorobenzene	89.2	80-120		%Rec	1	7/17/2019 9:55:10 AM	B61440

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907813**

19-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

Sample ID: **MB-46223**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **46223**	RunNo: **61446**							
Prep Date: **7/17/2019**	Analysis Date: **7/17/2019**	SeqNo: **2083563**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-46223**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **46223**	RunNo: **61446**							
Prep Date: **7/17/2019**	Analysis Date: **7/17/2019**	SeqNo: **2083564**	Units: **mg/Kg**						
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
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907813**

19-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

Sample ID: **LCS-46222** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **46222** RunNo: **61424**

Prep Date: **7/17/2019** Analysis Date: **7/17/2019** SeqNo: **2082509** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	63.9	124			
Surr: DNOP	4.5		5.000		90.0	70	130			

Sample ID: **MB-46222** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **46222** RunNo: **61424**

Prep Date: **7/17/2019** Analysis Date: **7/17/2019** SeqNo: **2082510** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: **1907813-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-6** Batch ID: **46222** RunNo: **61424**

Prep Date: **7/17/2019** Analysis Date: **7/17/2019** SeqNo: **2084130** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.4	46.77	2.431	105	57	142			
Surr: DNOP	4.1		4.677		86.7	70	130			

Sample ID: **1907813-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-6** Batch ID: **46222** RunNo: **61424**

Prep Date: **7/17/2019** Analysis Date: **7/17/2019** SeqNo: **2084131** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.6	48.17	2.431	111	57	142	7.80	20	
Surr: DNOP	4.4		4.817		90.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907813**

19-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **R61440**	RunNo: **61440**							
Prep Date:	Analysis Date: **7/17/2019**	SeqNo: **2083073**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.5	73.8	119			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **R61440**	RunNo: **61440**							
Prep Date:	Analysis Date: **7/17/2019**	SeqNo: **2083074**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.9	80.1	123			
Surr: BFB	1000		1000		103	73.8	119			

Sample ID: **1907813-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S-6**	Batch ID: **R61440**	RunNo: **61440**							
Prep Date:	Analysis Date: **7/17/2019**	SeqNo: **2083076**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.1	20.36	0	93.8	69.1	142			
Surr: BFB	980		814.3		120	73.8	119			S

Sample ID: **1907813-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S-6**	Batch ID: **R61440**	RunNo: **61440**							
Prep Date:	Analysis Date: **7/17/2019**	SeqNo: **2083077**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.1	20.36	0	90.1	69.1	142	4.00	20	
Surr: BFB	860		814.3		105	73.8	119	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907813**

19-Jul-19

Client: ENSOLUM

Project: Trunk MD 2018

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

Client ID: **PBS** Batch ID: **B61440** RunNo: **61440**

Prep Date: Analysis Date: **7/17/2019** SeqNo: **2083092** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.5	80	120			

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

Client ID: **LCSS** Batch ID: **R61440** RunNo: **61440**

Prep Date: Analysis Date: **7/17/2019** SeqNo: **2083093** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	80	120			

Sample ID: **1907813-001AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-6** Batch ID: **B61440** RunNo: **61440**

Prep Date: Analysis Date: **7/17/2019** SeqNo: **2083095** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.020	0.8143	0	97.6	63.9	127			
Toluene	0.83	0.041	0.8143	0	102	69.9	131			
Ethylbenzene	0.83	0.041	0.8143	0	102	71	132			
Xylenes, Total	2.5	0.081	2.443	0	101	71.8	131			
Surr: 4-Bromofluorobenzene	0.78		0.8143		95.4	80	120			

Sample ID: **1907813-001AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-6** Batch ID: **B61440** RunNo: **61440**

Prep Date: Analysis Date: **7/17/2019** SeqNo: **2083096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.020	0.8143	0	100	63.9	127	2.59	20	
Toluene	0.84	0.041	0.8143	0	104	69.9	131	1.91	20	
Ethylbenzene	0.84	0.041	0.8143	0	104	71	132	1.83	20	
Xylenes, Total	2.5	0.081	2.443	0	103	71.8	131	2.17	20	
Surr: 4-Bromofluorobenzene	0.78		0.8143		95.4	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1907813 RcptNo: 1

Received By: Leah Baca 7/17/2019 8:00:00 AM Leah Baca
Completed By: Anne Thorne 7/17/2019 8:18:44 AM Anne Thorne
Reviewed By: IO 7/17/19

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 5 07/17/19
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

CUSTODY SEAL INTACT ON SOIL JAR/at 7/17/19

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 7-17-19

Project Name: Trunk MD (2018)

Project #: 05A1226017

Project Manager: K. Summers

Sampler: C D'Aponti
On Ice: ☒ Yes ☐ No
# of Coolers: 2.8 (1)
Cooler Temp (including CF): 2.8C CF0 = 2.8C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1907813	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	(Cl), ~~F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
7/15/19	1100	S	S-6	1 4oz Jar	Cool	001	X	X					X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/16/19	1337	[signature]	Christn Waet		7/16/19	1337
7/16/19	1816	[signature]	[signature]	Courier	7/17/19	0800

Remarks: Pay Key RB21200
PM- Tom Long
Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.