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: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAB1629934570**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **32.1340004** Longitude **-104.046157** *NAD 83 in decimal degrees to 5 decimal places)*

Site Name: **Pipeline ROW 1002**	Site Type **Natural Gas Processing Plant**
Date Release Discovered: **10/14/2016**	Serial # *(if applicable)* **N/A**

Unit Letter	Section	Township	Range	County
D	**13**	**25S**	**28E**	**Eddy**

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* ***Henry McDonald***)

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): **1-2 BBLS**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **83 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: On October 14, 2016, Enterprise has a release of natural gas and natural gas liquids form the 1002 pipeline. No fire nor injuries occurred. No emergency service responded. From October 14, 2016, through October 31, 2016, Enterprise initiated remediation activities with Talon/LPE providing third party sampling and report preparation. Talon/LPE prepared a Closure Report, dated November 11, 2016, for submittal to the New Mexico EMNRD OCD which was subsequently rejected. From November 28, 2023, to February 13, 2024, Enterprise initiated additional investigation/remediation activities with Ensolum, LLC providing third party sampling and report preparation. A small volume of soil exceeding NMOCD remediation standards was identified during the secondary investigation. A third party closure report is included with this “Final C-141.”

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: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 03-01-2024

email: tjlong@eprod.com Telephone: (505) 599-2286

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: _____ Date: _____

Printed Name: _____ Title: _____

ENSOLUM

REVISED CLOSURE REPORT

Property:

Pipeline ROW, 1002

32.134004° N, 104.046157° W
Unit D, S13 T25S, R28E
Eddy County, New Mexico
NMOCD Incident ID: nAB1629934570

Ensolum Project No. 03B1226313

March 1, 2024

Prepared for:

Enterprise Field Services LLC
PO Box 4324
Houston, TX 77210

Attn: Thomas Long

Prepared by:

Kelly Lowery
Project Manager

Beaux Jennings
Senior Project Manager

ENSOLUM

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LIST OF APPENDICES

ENSOLUM

REVISED CLOSURE REPORT

Pipeline ROW, 1002

32.134004° N, 104.046157° W
Unit D, S13 T25S, R28E
Eddy County, New Mexico
NMOCD Incident ID: nAB1629934570

Ensolum Project No. 03B1226313

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	Pipeline ROW, 1002
Location:	32.134004° N, 104.046157° W Unit D, S13, T25S, R28E Eddy County, New Mexico
Property:	Private (Henry McDonald)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On October 14, 2016, Enterprise was notified of a release on the 1002 natural gas pipeline. Immediate response action commenced in accordance with the Enterprise *General Release Notification, Response and Remediation Plan* (dated March 2015). Enterprise isolated the leaking portion, and the pipeline section was shut down to carry out repair activities. Approximately 83 thousand cubic feet (MCF) of natural gas liquids (NGLs) and one (1) gallon (gal) of pipeline liquid was released from the pipeline and impacted surface soils in the vicinity of the release point. Notification was made to the New Mexico EMNRD OCD on October 14, 2016, and was subsequently assigned Incident ID: nAB1629934570.

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 concentrations.

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 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.

- The Site is located within 300 feet of a New Mexico EMNRD 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 from a permanent residence, school, hospital, institution or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater well records 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 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.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within a relatively stable area, also referred to as low karst.
- The Site is 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			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg or Background
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

From October 14, 2016, to October 31, 2016, initial site investigation and remediation activities were conducted by Talon/LPE (Talon) and New Mexico Rentals (NMR) utilizing a rubber-tired backhoe to remove all potentially impacted material, build two containment dams with clean material to prevent further migration of contaminated surface water, and to remove all potentially impacted surface water from the Site.

Excavated soil was removed and subsequently stockpiled on Site in preparation for disposal off-Site at an approved New Mexico EMNRD OCD approved facility. During that time, additional impacted soil removed

from the release area was mixed and blended utilizing excavation equipment to promote bioremediation of the petroleum hydrocarbons.

Talon prepared a *Closure Report*, dated November 11, 2016, for submittal to the New Mexico EMNRD OCD.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation (**Appendix F**).

4.0 SOIL SAMPLING PROGRAM

From October 14, 2016, through October 31, 2016, Talon collected a total of nine confirmation soil samples (SS-1 through SS-5, SS-5B SS-5C, SS-6 and SS-7) from seven locations within the excavation area, at depths ranging from 1-5 feet below ground surface (bgs). Talon prepared a *Closure Report*, dated November 11, 2016, for submittal to the New Mexico EMNRD OCD.

A copy of the Talon *Closure Report,* dated November 11, 2016, detailing the remediation and sampling activities is included in **Appendix F**.

Based on correspondence received from the New Mexico EMNRD OCD on August 16, 2023, the initial closure report for the Site was denied. According to the New Mexico EMNRD OCD,

"The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAB1629934570 for the following reasons: Impacted soil was mixed and blended for use of backfill without written approval from the OCD."

Following the denial of the Closure Report, Enterprise transferred the project over to Ensolum to take over future remediation activities.

On August 17, 2023, Enterprise was approved by the New Mexico EMNRD OCD a sampling variance request of 400 square-foot, 4-point composite samples to be collected from the former excavation extent utilizing a hand auger from depths ranging from 0-4 feet bgs. Due to refusal at depth at the Site preventing the utilization of a hand auger, it was determined by Enterprise and Ensolum that a Geoprobe© would be utilized to collect the new soil samples.

From November 28, 2023, to November 29, 2023, Ensolum arrived on-Site to collect four-point composite excavation floor samples at one-foot intervals throughout the backfilled material, reaching down to the original excavation floor, utilizing a Geoprobe©. A total of 16 excavation floor soil samples (SS-01 through SS-08) were collected from eight locations. The composite excavation floor samples were collected at varying depths in accordance with NMAC 19.15.29 (5) (d), which states that "*the responsible party must submit at least two soil samples for laboratory analysis from each borehole or sample point (highest observed contamination and deepest depth investigated*". Additionally, Ensolum collected eight background soil samples (BG-01 and BG-02) from two locations at depths ranging from 0-1, 1-2, 2-3, and 3-4 feet bgs, no closer than 50 feet but no greater than 100 feet from the lateral and horizontal extents of the impacted area.

Based on laboratory analytical results, additional excavation and sampling was required.

Subsequent to excavation activities, Ensolum returned to the site on February 13, 2024, to collect one composite excavation floor soil sample (SS-02) at a depth of three feet bgs. Based on the laboratory analytical data of the composite confirmation soil sample, no additional excavation/remediation is required.

The soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Hall Environmental Analysis Laboratory (Hall), recently acquired by Eurofins Environmental Testing South Central, LLC (Eurofins) in Albuquerque, New Mexico under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The confirmation soil samples were analyzed for total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil/lube oil range organics (MRO) following Environmental Protection Agency (EPA) Method 8015M/D, BTEX using EPA Method 8021B, 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 TPH GRO/DRO/MRO, BTEX and chloride concentrations and/or laboratory sample detection limits (SDLs) associated with the composite excavation floor soil samples (SS-01 through SS-08) and the background soil samples (BG-01 and BG-02) to the New Mexico EMNRD OCD closure criteria.

Due to the presence of elevated concentrations of chloride in the surrounding soils, Ensolum utilized the detected concentrations of chloride in the background samples collected outside the impacted area (BG-01 and BG-02) to calculate the 95% Upper Tolerance Limit (UTL) for the Site. Ensolum compared the chloride concentrations and/or laboratory SDLs associated with the soil samples to the calculated site-specific UTL, located in **Table 1** in **Appendix D** and supporting documentation in **Appendix B**.

- Laboratory analytical results indicate total benzene concentrations for soils remaining in place within the former excavation extent and the background soil samples are below the laboratory SDLs and/or the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.

- Laboratory analytical results indicate total BTEX concentrations for soils remaining in place within the former excavation extent and the background soil samples are below the laboratory SDLs and/or the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for soils remaining in place within the former excavation extent, with the exception of SS-02 from 0-3 feet bgs, and the background soil samples are below the laboratory SDLs and/or the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- Subsequent to excavation activities and resampling of the soils remaining in place at SS-02 at a depth of 3 feet bgs, the soils remaining in place are now below the laboratory SDLs and/or the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- Laboratory analytical results indicate chloride concentrations for soil remaining in place at the locations of the excavation floor soil samples (SS-01 through SS-08) and background soil samples (BG-01 and BG-02), do exceed the New Mexico EMNRD OCD closure criteria of 600 mg/kg; however, these concentrations do not exceed the calculated site-specific UTL of 10,346 mg/kg.

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

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-site for proper disposal. The excavated area will be backfilled with clean fill material, and then contoured to the original surrounding grade. A landowner approved seed mixture will be sown into the surface of the backfill for re-vegetation.

8.0 FINDINGS AND RECOMMENDATION

- 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.

- Based on correspondence received from the New Mexico EMNRD OCD on August 16, 2023, the initial closure request following the submittal of the *Closure Report*, prepared by Talon and dated November 11, 2016, for the Site was denied. *"The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAB1629934570 for the following reasons: Impacted soil was mixed and blended for use of backfill without written approval from the OCD."*

- From November 28, 2023 to November 29, 2023,, Ensolum arrived on-Site to collect four-point composite floor samples at one-foot intervals throughout the backfill material and down to the original excavation floor utilizing a Geoprobe©. A total of 16 excavation floor soil samples (SS-1 through SS-08) were collected from eight locations. The composite floor samples were collected at varying depths in accordance with NMAC 19.15.29 (5) (d). Additionally, Ensolum collected eight background soil samples (BG-01 and BG-02) from two locations at depths ranging from 0-1, 1-2, 2-3, and 3-4 feet bgs, no closer than 50 feet but no greater than 100 feet from the lateral and horizontal extents of the impacted area.

- Subsequent to excavation activities, Ensolum returned to the site on February 13, 2024, to collect one composite soil sample (SS-02) from the excavation floor at a depth of three feet bgs. Based on the laboratory analytical data of the composite confirmation soil sample, no additional excavation/remediation is required.

- Based on the soil analytical results, soils remaining in place do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria for TPH GRO/DRO/MRO, benzene, and total BTEX.

- Laboratory analytical results indicate chloride concentrations for soil remaining in place at the locations of the excavation floor soil samples (SS-01 through SS-08) and background soil samples (BG-01 and BG-02), do exceed the New Mexico EMNRD OCD closure criteria of 600 mg/kg; however, these concentrations do not exceed the calculated site-specific UTL of 10,346 mg/kg.

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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

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 recommendations are based solely upon data available to Ensolum at the time of these services.

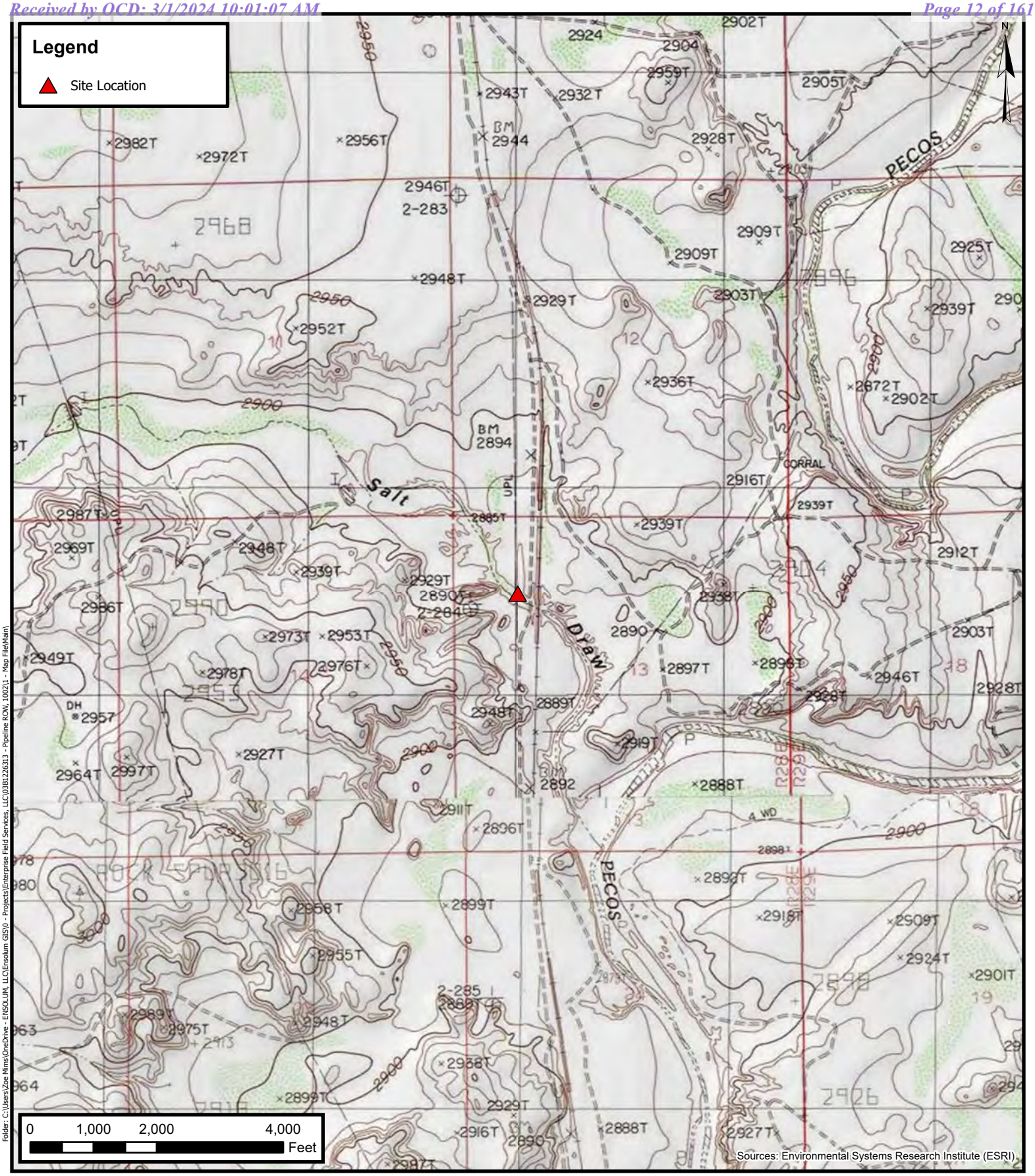
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Field Services, 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 Field Services, 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



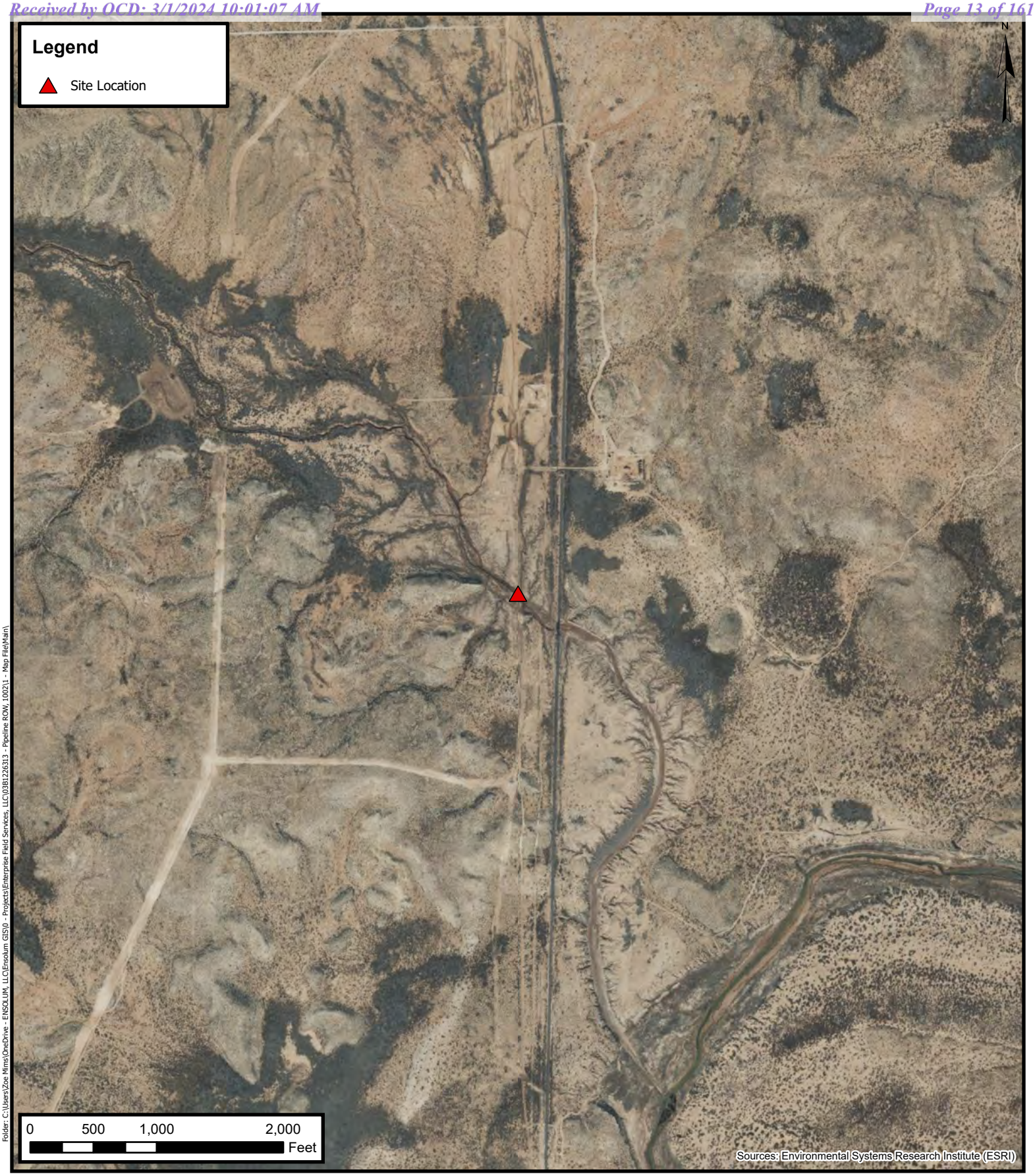
Folder: C:\Users\Zoe Mims\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Enterprise Field Services, LLC\03B1226313 - Pipeline ROW, 1002\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Pipeline ROW, 1002
Incident Number: nAB1629934570
32.134004, -104.046157
Eddy County, New Mexico

FIGURE 1

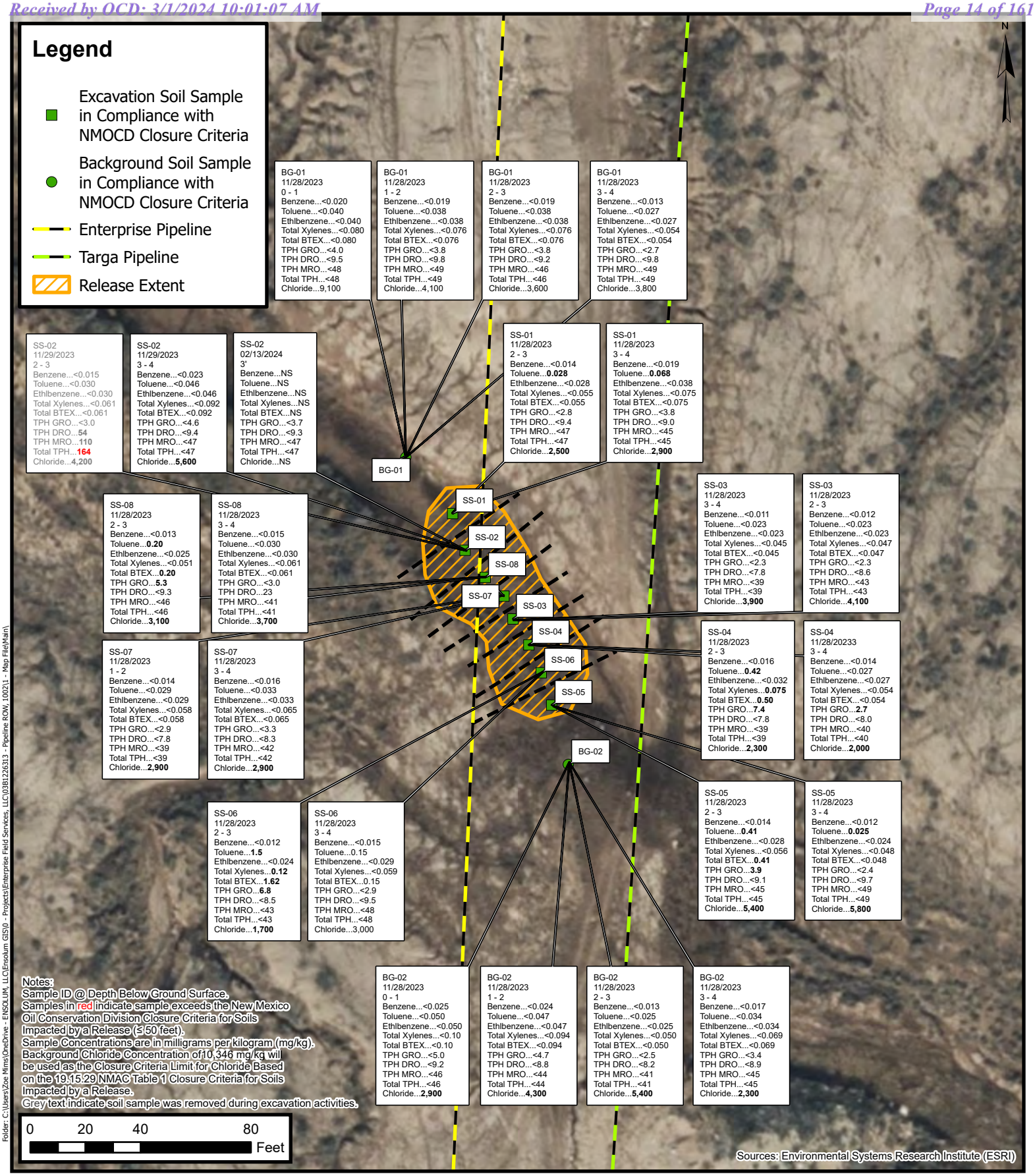


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Pipeline ROW, 1002
Incident Number: nAB1629934570
32.134004, -104.046157
Eddy County, New Mexico

FIGURE 2



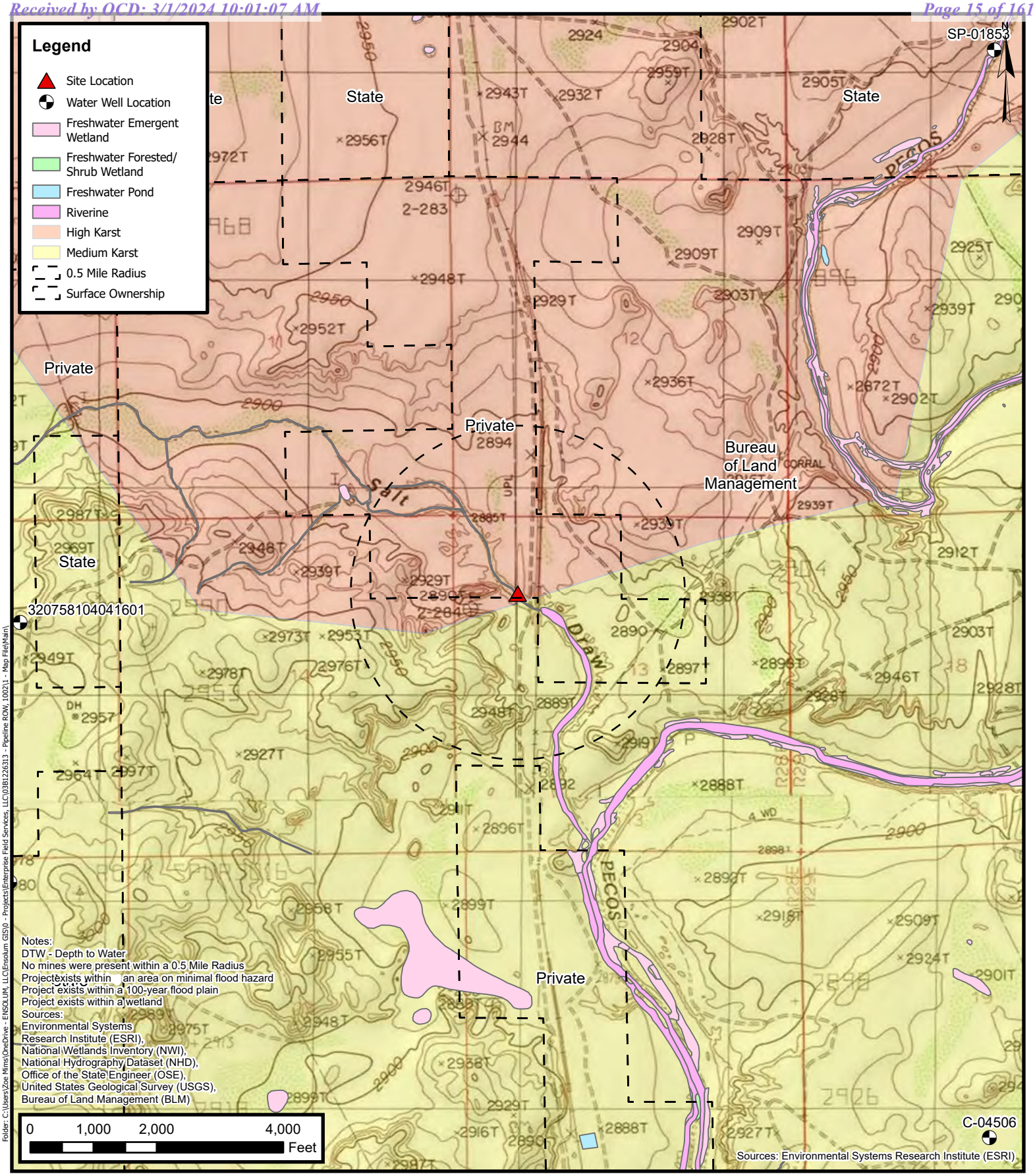
Folder: C:\Users\Zoe Mims\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Enterprise Field Services, LLC\03B1226313 - Pipeline ROW, 1002\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Map

Enterprise Field Services, LLC
Pipeline ROW, 1002
Incident Number: nAB1629934570
32.134004, -104.046157
Eddy County, New Mexico

FIGURE 3



Folder: C:\Users\Zoe Mims\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Enterprise Field Services, LLC\03B1226313 - Pipeline ROW, 1002\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Closure Criteria Map

Enterprise Field Services, LLC
Pipeline ROW, 1002
Incident Number: nAB1629934570
32.134004, -104.046157
Eddy County, New Mexico

FIGURE 4

ENSOLUM

APPENDIX B

Supporting Documentation

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, November 21, 2023 12:29 PM
To: Long, Thomas; Hamlet, Robert, EMNRD; Maxwell, Ashley, EMNRD
Cc: Kelly Lowery; Velez, Nelson, EMNRD; Stone, Brian; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

[**EXTERNAL EMAIL**]

Hi Thomas,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, November 21, 2023 11:06 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Kelly Lowery <klowery@ensolum.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Stone, Brian <bmstone@eprod.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

Robert/Shelly/Ashely,

This email is a notification that Enterprise will be conducting the drilling/probing the Line 1002 release site beginning on Tuesday, November 28, 2023. Enterprise will be collecting closure samples from each soil boring throughout November 28, 2023 and November 29, 2023. Please call or email if you have any questions.

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

Enterprise Products

From: Long, Thomas
Sent: Tuesday, November 7, 2023 7:18 AM
To: 'Wells, Shelly, EMNRD' <Shelly.Wells@emnrd.nm.gov>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kelly Lowery <klowery@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

All,

We had to postpone the soil boring installation due to muddy conditions in the wash. It has been rescheduled to begin on November 27, 2023. 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

Enterprise Products

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, November 1, 2023 9:09 AM
To: Long, Thomas <tjlong@eprod.com>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kelly Lowery <klowery@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

[Use caution with links/attachments]
Hi Thomas,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, November 1, 2023 8:49 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kelly Lowery <klowery@ensolum.com>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

Ashely,

This email is a notification that Enterprise has scheduled the soil delineation activities utilizing a Geoprobe at the Line 1002 (NMOCD Incident # nAB1629934570) release site on Tuesday, November 7, 2023. Closure sampling activities will be conducted throughout the day. Soil samples will be collected per the attached map and approved variance below. 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

Enterprise Products

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Thursday, August 17, 2023 1:32 PM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Kelly Lowery <klowery@ensolum.com>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

[Use caution with links/attachments]
Tom,

Your variance request for alternative sampling every 400 square feet is approved. Please include this correspondence in any future report submissions.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, August 17, 2023 1:13 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kelly Lowery <klowery@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

Ashely,

Enterprise requests a variance from the 200 square feet sampling requirement cited in 19.15.29.12 (D)(1)(c). Enterprise requests an alternate of 400 square feet and four-point composite aliquots collected utilizing a hand auger from depths from 0-4 feet below ground surface. Please find the attached proposed sample location map for additional details. This will be a total of 32 soil borings across the impacted area. 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: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, August 16, 2023 2:52 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 240804

[Use caution with links/attachments]

To whom it may concern (c/o Tom Long for Enterprise Field Services, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1629934570,
for the following reasons:

- **Impacted soil was mixed and blended for use of backfill without written approval from the OCD.**
- **Collect confirmation samples compliant with 19.15.29.12 NMAC.**
- **Submit a closure report via the OCD permitting portal by December 20, 2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 240804.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Ashley Maxwell
Projects Environmental Specialist - A
505-635-5000
Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

95th Upper Tolerance Limit Calculation

BG-01	=	9,100
BG-01	=	4,100
BG-01	=	3,600
BG-01	=	3,800
BG-02	=	2,900
BG-02	=	4,300
BG-02	=	5,400
BG-02	=	2,300

2098.936806	=	Standard Deviation
8	=	Sample Size (i.e. 12 samples collected within a 1/4 acre area).
2.815	=	One-sided tolerance factor
4437.500	=	Arithmetic Mean
10346.007	=	95% UTL

UTL = x + kS

Where: x = Mean

k = One-sided tolerance factor

S = Standard Deviation

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-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company *Enterprise Field Services LLC*	Contact *Alena Miro*
PO Box 4324, Houston, TX 77210	Telephone No. *575-628-6802*
Facility Name *Pipeline ROW, 1002*	Facility Type: *Gas Gathering Pipeline*

Surface Owner *Henry McDonald*	Mineral Owner *NA - Pipeline*	Lease No. *NA*

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	*13*	*25S*	*28E*	*85*	*South*	*310*	*East*	*Eddy*

Latitude: *N 32.134004* **Longitude:** *W -104.046157*

NATURE OF RELEASE

Type of Release *Natural Gas and Pipeline Liquid*	Volume of Release: *83 MCF gas and 1 gallon of liquid*	Volume Recovered: *N/A*
Source of Release *Pipeline Leak*	Date and Hour of Occurrence *10/14/2016 @ 11:15 MST*	Date and Hour of Discovery *10/14/2016 @ 11:15 MST*
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? *Mike Bratcher*	
By Whom? *Alena Miro*	Date and Hour *10/14/2016 @ 11:27 MST*	
Was a Watercourse Reached? ☒ Yes ☒ No	If YES, Volume Impacting the Watercourse. *1 gallon*	

If a Watercourse was Impacted, Describe Fully.*
On October 14, 2016, it was discovered that pipeline liquids were released into Salt Draw. The NRC and NMOCD were notified immediately upon discovery 10/14/2016 @ 11:20 MST. Salt Draw is an ephemeral stream that has down cut through thick bedded gypsum. The confluence with the Pecos River is approximately 0.76 miles downstream of the release point.

Describe Cause of Problem and Remedial Action Taken.*
Natural gas and pipeline liquids were released due to a pipeline leak. The pipeline segment was isolated and blown down. Following repair, the section of pipe traversing the draw will be taken out of service and abandoned. The pipeline to the north side of the draw is blocked in and blinded. The pipeline to the south side of the draw will be pigged to remove residual liquids and then returned to service.

Describe Area Affected and Cleanup Action Taken.*
At the time of the release the draw contained rainwater; however, a natural dirt berm in the draw contained the water and prevented it from flowing downstream during the release. All pipeline fluids and potentially affected rainwater were removed from the draw. Clean-up action will follow Enterprise Field Services General Release Notification, Response and Remediation Plan(March 9, 2015) and closure report submitted.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: *Jon E. Fields*	Approved by District Supervisor:
Title: *Director, Field Environmental*	Approval Date: / Expiration Date:
E-mail Address: *jefields@eprod.com*	Conditions of Approval: / Attached ☐
Date: 5-9-19 Phone: *713-381-6684*	

* Attach Additional Sheets If Necessary

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: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206749
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	7/10/2023
amaxwell	Final C-141 accepted for information only.	7/10/2023
amaxwell	Final C-141 did not have a report included with it.	7/10/2023
amaxwell	Submit a closure report via the OCD permitting portal by 9/29/2023.	7/10/2023

ENSOLUM

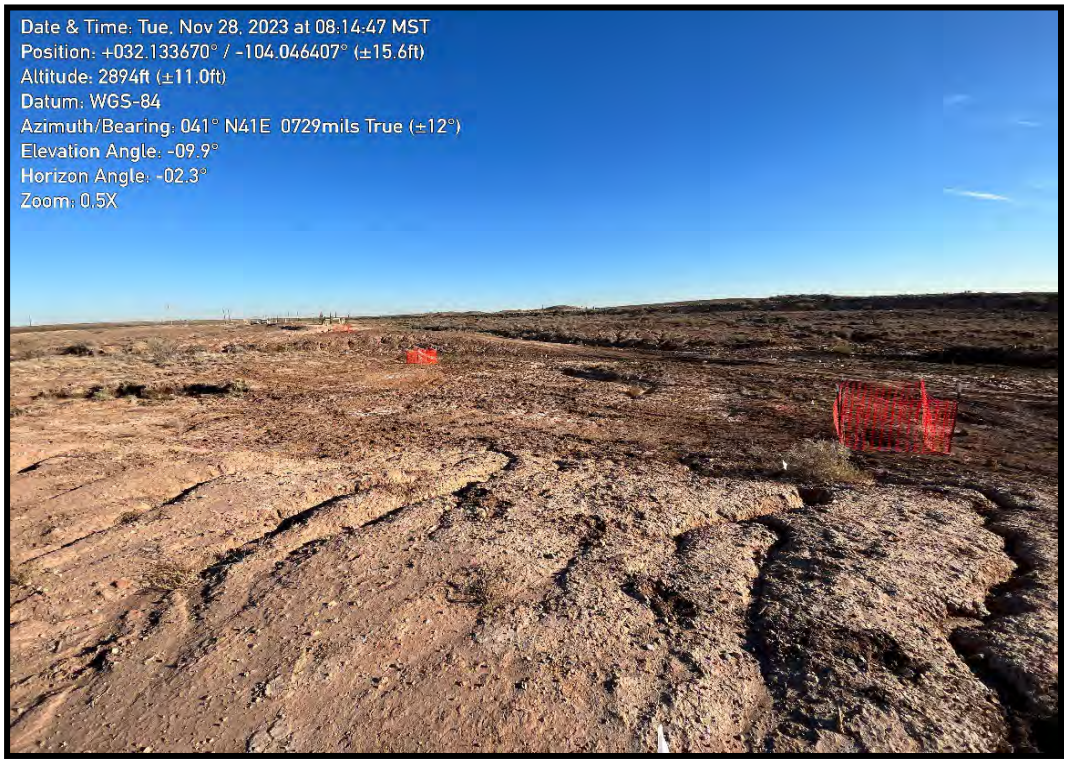
APPENDIX C

Photographic Documentation

Project: Pipeline ROW, 1002
Entity: Enterprise Field Services, LLC
Project #: 03B1226315

ENSOLUM

View of former release extent, facing north (11/16/2023).



View of former release extent, facing northeast (11/28/2023).

Project: Pipeline ROW, 1002
Entity: Enterprise Field Services, LLC
Project #: 03B1226315

View of former release extent, facing southwest (11/28/2023).

View of SS-02 during remediation activities, facing southwest (2/13/2024).

ENSOLUM

APPENDIX D

Table

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Pipeline ROW, 1002
Enterprise Field Services, LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226313

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Background Chloride Delineation Limit (Per NMAC 19.15.29.11 (A) (5) (c))			NE									10,346
Excavation Floor Soil Sample Analytical Results												
SS-01	11/28/2023	2 - 3	<0.014	**0.028**	<0.028	<0.055	<0.055	<2.8	<9.4	<47	<47	**2,500**
		3 - 4	<0.019	**0.068**	<0.038	<0.075	<0.075	<3.8	<9.0	<45	<45	**2,900**
SS-02	11/29/2023	2 - 3	<0.015	<0.030	<0.030	<0.061	<0.061	<3.0	**54**	**110**	**164**	**4,200**
	02/13/2024	3	NS					<3.7	<9.3	<47	<47	NS
	11/29/2023	3 - 4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<47	<47	**5,600**
SS-03	11/28/2023	2 - 3	<0.012	<0.023	<0.023	<0.047	<0.047	<2.3	<8.6	<43	<43	**4,100**
		3 - 4	<0.011	<0.023	<0.023	<0.045	<0.045	<2.3	<7.8	<39	<39	**3,900**
SS-04	11/28/2023	2 - 3	<0.016	**0.42**	<0.032	**0.075**	**0.50**	**7.4**	<7.8	<39	<39	**2,300**
		3 - 4	<0.014	<0.027	<0.027	<0.054	<0.054	<2.7	<8.0	<40	<40	**2,000**
SS-05	11/28/2023	2 - 3	<0.014	**0.41**	<0.028	<0.056	**0.41**	**3.9**	<9.1	<45	<45	**5,400**
		3 - 4	<0.012	**0.025**	<0.024	<0.048	<0.048	<2.4	<9.7	<49	<49	**5,800**
SS-06	11/28/2023	2 - 3	<0.012	**1.5**	<0.024	**0.12**	**1.62**	**6.8**	<8.5	<43	<43	**1,700**
		3 - 4	<0.015	**0.15**	<0.029	<0.059	**0.15**	<2.9	<9.5	<48	<48	**3,000**
SS-07	11/28/2023	1 - 2	<0.014	<0.029	<0.029	<0.058	<0.058	<2.9	<7.8	<39	<39	**2,900**
		3 - 4	<0.016	<0.033	<0.033	<0.065	<0.065	<3.3	<8.3	<42	<42	**2,900**
SS-08	11/28/2023	2 - 3	<0.013	**0.20**	<0.025	<0.051	**0.20**	**5.3**	<9.3	<46	<46	**3,100**
		3 - 4	<0.015	<0.030	<0.030	<0.061	<0.061	<3.0	**23**	<41	<41	**3,700**
Background Soil Sample Analytical Results												
BG-01	11/28/2023	0 - 1	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	<9.5	<48	<48	**9,100**
		1 - 2	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<9.8	<49	<49	**4,100**
		2 - 3	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<9.2	<46	<46	**3,600**
		3 - 4	<0.013	<0.027	<0.027	<0.054	<0.054	<2.7	<9.8	<49	<49	**3,800**
BG-02	11/28/2023	0 - 1	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	**2,900**
		1 - 2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<8.8	<44	<44	**4,300**
		2 - 3	<0.013	<0.025	<0.025	<0.050	<0.050	<2.5	<8.2	<41	<41	**5,400**
		3 - 4	<0.017	<0.034	<0.034	<0.069	<0.069	<3.4	<8.9	<45	<45	**2,300**

*Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)*

Additional Excavation and/or Re-Sample

bgs - below ground surface
mg/kg - milligrams per kilogram
NA - Not Applicable
NE - Not Established
NS - Not Sampled
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
MRO - Motor Oil/Lube Oil Range Organics
TPH - Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 13, 2023

Kelly Lowery
Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Pipeline ROW 1002 OrderNo.: 2311D82

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 36 sample(s) on 11/30/2023 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 do not hesitate to contact Eurofins Albuquerque 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 **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-01 0-1'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 10:28:00 AM
Lab ID: 2311D82-001 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/30/2023 6:27:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2023 6:27:02 PM
Surr: DNOP	95.6	69-147		%Rec	1	11/30/2023 6:27:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/30/2023 4:57:27 PM
Surr: BFB	94.6	15-244		%Rec	1	11/30/2023 4:57:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.020		mg/Kg	1	11/30/2023 4:57:27 PM
Toluene	ND	0.040		mg/Kg	1	11/30/2023 4:57:27 PM
Ethylbenzene	ND	0.040		mg/Kg	1	11/30/2023 4:57:27 PM
Xylenes, Total	ND	0.080		mg/Kg	1	11/30/2023 4:57:27 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	11/30/2023 4:57:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	9100	590		mg/Kg	200	12/1/2023 8:30:11 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-01 1-2'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 10:28:00 AM
Lab ID: 2311D82-002 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/30/2023 6:51:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/30/2023 6:51:01 PM
Surr: DNOP	95.8	69-147		%Rec	1	11/30/2023 6:51:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/30/2023 5:20:56 PM
Surr: BFB	93.2	15-244		%Rec	1	11/30/2023 5:20:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.019		mg/Kg	1	11/30/2023 5:20:56 PM
Toluene	ND	0.038		mg/Kg	1	11/30/2023 5:20:56 PM
Ethylbenzene	ND	0.038		mg/Kg	1	11/30/2023 5:20:56 PM
Xylenes, Total	ND	0.076		mg/Kg	1	11/30/2023 5:20:56 PM
Surr: 4-Bromofluorobenzene	94.8	39.1-146		%Rec	1	11/30/2023 5:20:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	4100	150		mg/Kg	50	12/1/2023 8:42:35 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-01 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 10:28:00 AM
Lab ID: 2311D82-003 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/30/2023 7:15:02 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/30/2023 7:15:02 PM
Surr: DNOP	96.0	69-147		%Rec	1	11/30/2023 7:15:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/30/2023 5:44:21 PM
Surr: BFB	95.1	15-244		%Rec	1	11/30/2023 5:44:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.019		mg/Kg	1	11/30/2023 5:44:21 PM
Toluene	ND	0.038		mg/Kg	1	11/30/2023 5:44:21 PM
Ethylbenzene	ND	0.038		mg/Kg	1	11/30/2023 5:44:21 PM
Xylenes, Total	ND	0.076		mg/Kg	1	11/30/2023 5:44:21 PM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	11/30/2023 5:44:21 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	3600	150		mg/Kg	50	12/1/2023 8:54:59 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-01 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 10:28:00 AM
Lab ID: 2311D82-004 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/30/2023 7:39:00 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/30/2023 7:39:00 PM
Surr: DNOP	98.8	69-147		%Rec	1	11/30/2023 7:39:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	11/30/2023 6:07:46 PM
Surr: BFB	93.5	15-244		%Rec	1	11/30/2023 6:07:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.013		mg/Kg	1	11/30/2023 6:07:46 PM
Toluene	ND	0.027		mg/Kg	1	11/30/2023 6:07:46 PM
Ethylbenzene	ND	0.027		mg/Kg	1	11/30/2023 6:07:46 PM
Xylenes, Total	ND	0.054		mg/Kg	1	11/30/2023 6:07:46 PM
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	11/30/2023 6:07:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	3800	150		mg/Kg	50	12/1/2023 9:07:23 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-01 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 11:07:00 AM
Lab ID: 2311D82-007 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/30/2023 8:02:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2023 8:02:57 PM
Surr: DNOP	96.7	69-147		%Rec	1	11/30/2023 8:02:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	11/30/2023 6:31:10 PM
Surr: BFB	121	15-244		%Rec	1	11/30/2023 6:31:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.014		mg/Kg	1	11/30/2023 6:31:10 PM
Toluene	0.028	0.028		mg/Kg	1	11/30/2023 6:31:10 PM
Ethylbenzene	ND	0.028		mg/Kg	1	11/30/2023 6:31:10 PM
Xylenes, Total	ND	0.055		mg/Kg	1	11/30/2023 6:31:10 PM
Surr: 4-Bromofluorobenzene	96.2	39.1-146		%Rec	1	11/30/2023 6:31:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2500	150		mg/Kg	50	12/1/2023 9:19:48 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-01 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 11:07:00 AM
Lab ID: 2311D82-008 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/30/2023 8:26:54 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/30/2023 8:26:54 PM
Surr: DNOP	94.1	69-147		%Rec	1	11/30/2023 8:26:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/30/2023 6:54:35 PM
Surr: BFB	103	15-244		%Rec	1	11/30/2023 6:54:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.019		mg/Kg	1	11/30/2023 6:54:35 PM
Toluene	0.068	0.038		mg/Kg	1	11/30/2023 6:54:35 PM
Ethylbenzene	ND	0.038		mg/Kg	1	11/30/2023 6:54:35 PM
Xylenes, Total	ND	0.075		mg/Kg	1	11/30/2023 6:54:35 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	11/30/2023 6:54:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2900	150		mg/Kg	50	12/1/2023 9:32:12 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-08 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 11:40:00 AM
Lab ID: 2311D82-011 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/30/2023 8:50:46 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/30/2023 8:50:46 PM
Surr: DNOP	95.6	69-147		%Rec	1	11/30/2023 8:50:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	5.3	2.5		mg/Kg	1	11/30/2023 7:17:56 PM
Surr: BFB	204	15-244		%Rec	1	11/30/2023 7:17:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.013		mg/Kg	1	11/30/2023 7:17:56 PM
Toluene	0.20	0.025		mg/Kg	1	11/30/2023 7:17:56 PM
Ethylbenzene	ND	0.025		mg/Kg	1	11/30/2023 7:17:56 PM
Xylenes, Total	ND	0.051		mg/Kg	1	11/30/2023 7:17:56 PM
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	11/30/2023 7:17:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	3100	150		mg/Kg	50	12/1/2023 9:44:37 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-08 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 11:40:00 AM
Lab ID: 2311D82-012 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	23	8.1		mg/Kg	1	11/30/2023 9:14:41 PM
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	11/30/2023 9:14:41 PM
Surr: DNOP	97.4	69-147		%Rec	1	11/30/2023 9:14:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	11/30/2023 11:58:16 PM
Surr: BFB	131	15-244		%Rec	1	11/30/2023 11:58:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.015		mg/Kg	1	11/30/2023 11:58:16 PM
Toluene	ND	0.030		mg/Kg	1	11/30/2023 11:58:16 PM
Ethylbenzene	ND	0.030		mg/Kg	1	11/30/2023 11:58:16 PM
Xylenes, Total	ND	0.061		mg/Kg	1	11/30/2023 11:58:16 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	11/30/2023 11:58:16 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	3700	150		mg/Kg	50	12/1/2023 10:21:50 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-07 1-2'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 12:20:00 PM
Lab ID: 2311D82-014 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	7.8		mg/Kg	1	11/30/2023 10:02:24 PM
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	11/30/2023 10:02:24 PM
Surr: DNOP	93.2	69-147		%Rec	1	11/30/2023 10:02:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	12/1/2023 12:21:34 AM
Surr: BFB	100	15-244		%Rec	1	12/1/2023 12:21:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.014		mg/Kg	1	12/1/2023 12:21:34 AM
Toluene	ND	0.029		mg/Kg	1	12/1/2023 12:21:34 AM
Ethylbenzene	ND	0.029		mg/Kg	1	12/1/2023 12:21:34 AM
Xylenes, Total	ND	0.058		mg/Kg	1	12/1/2023 12:21:34 AM
Surr: 4-Bromofluorobenzene	95.5	39.1-146		%Rec	1	12/1/2023 12:21:34 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2900	150		mg/Kg	50	12/1/2023 10:34:15 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-07 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 12:20:00 PM
Lab ID: 2311D82-016 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	11/30/2023 10:26:12 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/30/2023 10:26:12 PM
Surr: DNOP	94.2	69-147		%Rec	1	11/30/2023 10:26:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	12/1/2023 12:44:51 AM
Surr: BFB	93.4	15-244		%Rec	1	12/1/2023 12:44:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.016		mg/Kg	1	12/1/2023 12:44:51 AM
Toluene	ND	0.033		mg/Kg	1	12/1/2023 12:44:51 AM
Ethylbenzene	ND	0.033		mg/Kg	1	12/1/2023 12:44:51 AM
Xylenes, Total	ND	0.065		mg/Kg	1	12/1/2023 12:44:51 AM
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	12/1/2023 12:44:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2900	150		mg/Kg	50	12/1/2023 10:46:40 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-03 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 1:50:00 PM
Lab ID: 2311D82-019 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	11/30/2023 10:50:06 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/30/2023 10:50:06 PM
Surr: DNOP	95.3	69-147		%Rec	1	11/30/2023 10:50:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.3		mg/Kg	1	12/1/2023 1:08:06 AM
Surr: BFB	95.7	15-244		%Rec	1	12/1/2023 1:08:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.012		mg/Kg	1	12/1/2023 1:08:06 AM
Toluene	ND	0.023		mg/Kg	1	12/1/2023 1:08:06 AM
Ethylbenzene	ND	0.023		mg/Kg	1	12/1/2023 1:08:06 AM
Xylenes, Total	ND	0.047		mg/Kg	1	12/1/2023 1:08:06 AM
Surr: 4-Bromofluorobenzene	95.4	39.1-146		%Rec	1	12/1/2023 1:08:06 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	4100	150		mg/Kg	50	12/1/2023 10:59:04 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-03 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 1:50:00 PM
Lab ID: 2311D82-020 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	7.8		mg/Kg	1	11/30/2023 11:13:56 PM
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	11/30/2023 11:13:56 PM
Surr: DNOP	93.4	69-147		%Rec	1	11/30/2023 11:13:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.3		mg/Kg	1	12/1/2023 1:31:23 AM
Surr: BFB	95.7	15-244		%Rec	1	12/1/2023 1:31:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.011		mg/Kg	1	12/1/2023 1:31:23 AM
Toluene	ND	0.023		mg/Kg	1	12/1/2023 1:31:23 AM
Ethylbenzene	ND	0.023		mg/Kg	1	12/1/2023 1:31:23 AM
Xylenes, Total	ND	0.045		mg/Kg	1	12/1/2023 1:31:23 AM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	12/1/2023 1:31:23 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	3900	150		mg/Kg	50	12/1/2023 11:11:29 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-06 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:06:00 PM
Lab ID: 2311D82-023 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	11/30/2023 11:37:41 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/30/2023 11:37:41 PM
Surr: DNOP	95.9	69-147		%Rec	1	11/30/2023 11:37:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	6.8	2.4		mg/Kg	1	12/1/2023 1:54:34 AM
Surr: BFB	177	15-244		%Rec	1	12/1/2023 1:54:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.012		mg/Kg	1	12/1/2023 1:54:34 AM
Toluene	1.5	0.024		mg/Kg	1	12/1/2023 1:54:34 AM
Ethylbenzene	ND	0.024		mg/Kg	1	12/1/2023 1:54:34 AM
Xylenes, Total	0.12	0.049		mg/Kg	1	12/1/2023 1:54:34 AM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	12/1/2023 1:54:34 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	1700	60		mg/Kg	20	12/1/2023 1:53:23 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-06 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:06:00 PM
Lab ID: 2311D82-024 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/1/2023 12:01:31 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2023 12:01:31 AM
Surr: DNOP	96.5	69-147		%Rec	1	12/1/2023 12:01:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	12/1/2023 2:17:48 AM
Surr: BFB	97.7	15-244		%Rec	1	12/1/2023 2:17:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.015		mg/Kg	1	12/1/2023 2:17:48 AM
Toluene	0.15	0.029		mg/Kg	1	12/1/2023 2:17:48 AM
Ethylbenzene	ND	0.029		mg/Kg	1	12/1/2023 2:17:48 AM
Xylenes, Total	ND	0.059		mg/Kg	1	12/1/2023 2:17:48 AM
Surr: 4-Bromofluorobenzene	91.8	39.1-146		%Rec	1	12/1/2023 2:17:48 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	3000	150		mg/Kg	50	12/1/2023 11:23:54 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-04 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 2:30:00 PM
Lab ID: 2311D82-027 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	7.8		mg/Kg	1	12/1/2023 12:25:19 AM
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	12/1/2023 12:25:19 AM
Surr: DNOP	95.6	69-147		%Rec	1	12/1/2023 12:25:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	7.4	3.2		mg/Kg	1	12/1/2023 2:41:03 AM
Surr: BFB	216	15-244		%Rec	1	12/1/2023 2:41:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.016		mg/Kg	1	12/1/2023 2:41:03 AM
Toluene	0.42	0.032		mg/Kg	1	12/1/2023 2:41:03 AM
Ethylbenzene	ND	0.032		mg/Kg	1	12/1/2023 2:41:03 AM
Xylenes, Total	0.075	0.064		mg/Kg	1	12/1/2023 2:41:03 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	12/1/2023 2:41:03 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2300	60		mg/Kg	20	12/1/2023 2:18:48 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-04 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 2:30:00 PM
Lab ID: 2311D82-028 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.0		mg/Kg	1	12/1/2023 12:49:07 AM
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	12/1/2023 12:49:07 AM
Surr: DNOP	97.4	69-147		%Rec	1	12/1/2023 12:49:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	12/1/2023 3:04:17 AM
Surr: BFB	96.8	15-244		%Rec	1	12/1/2023 3:04:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.014		mg/Kg	1	12/1/2023 3:04:17 AM
Toluene	ND	0.027		mg/Kg	1	12/1/2023 3:04:17 AM
Ethylbenzene	ND	0.027		mg/Kg	1	12/1/2023 3:04:17 AM
Xylenes, Total	ND	0.054		mg/Kg	1	12/1/2023 3:04:17 AM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	12/1/2023 3:04:17 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2000	60		mg/Kg	20	12/1/2023 2:31:13 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-05 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:27:00 PM
Lab ID: 2311D82-031 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/1/2023 1:12:53 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/1/2023 1:12:53 AM
Surr: DNOP	91.1	69-147		%Rec	1	12/1/2023 1:12:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	3.9	2.8		mg/Kg	1	12/1/2023 3:27:30 AM
Surr: BFB	159	15-244		%Rec	1	12/1/2023 3:27:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.014		mg/Kg	1	12/1/2023 3:27:30 AM
Toluene	0.41	0.028		mg/Kg	1	12/1/2023 3:27:30 AM
Ethylbenzene	ND	0.028		mg/Kg	1	12/1/2023 3:27:30 AM
Xylenes, Total	ND	0.056		mg/Kg	1	12/1/2023 3:27:30 AM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/1/2023 3:27:30 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	5400	150		mg/Kg	50	12/4/2023 12:08:59 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-05 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:27:00 PM
Lab ID: 2311D82-032 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/1/2023 1:36:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/1/2023 1:36:47 AM
Surr: DNOP	95.3	69-147		%Rec	1	12/1/2023 1:36:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.4		mg/Kg	1	12/1/2023 4:13:59 AM
Surr: BFB	94.2	15-244		%Rec	1	12/1/2023 4:13:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.012		mg/Kg	1	12/1/2023 4:13:59 AM
Toluene	0.025	0.024		mg/Kg	1	12/1/2023 4:13:59 AM
Ethylbenzene	ND	0.024		mg/Kg	1	12/1/2023 4:13:59 AM
Xylenes, Total	ND	0.048		mg/Kg	1	12/1/2023 4:13:59 AM
Surr: 4-Bromofluorobenzene	93.3	39.1-146		%Rec	1	12/1/2023 4:13:59 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	5800	150		mg/Kg	50	12/4/2023 12:21:23 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-02 0-1'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:30:00 PM
Lab ID: 2311D82-033 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/8/2023 12:31:37 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2023 12:31:37 PM
Surr: DNOP	95.5	69-147		%Rec	1	12/8/2023 12:31:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2023 4:00:00 PM
Surr: BFB	93.5	15-244		%Rec	1	12/9/2023 4:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	12/9/2023 4:00:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2023 4:00:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2023 4:00:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2023 4:00:00 PM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/9/2023 4:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	2900	150		mg/Kg	50	12/11/2023 9:48:19 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-02 1-2'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:30:00 PM
Lab ID: 2311D82-034 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/8/2023 12:56:18 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2023 12:56:18 PM
Surr: DNOP	94.9	69-147		%Rec	1	12/8/2023 12:56:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2023 4:23:16 PM
Surr: BFB	95.4	15-244		%Rec	1	12/9/2023 4:23:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	12/9/2023 4:23:16 PM
Toluene	ND	0.047		mg/Kg	1	12/9/2023 4:23:16 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2023 4:23:16 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/9/2023 4:23:16 PM
Surr: 4-Bromofluorobenzene	98.5	39.1-146		%Rec	1	12/9/2023 4:23:16 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	4300	150		mg/Kg	50	12/11/2023 10:02:58 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-02 2-3'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:30:00 PM
Lab ID: 2311D82-035 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	12/1/2023 2:00:33 AM
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	12/1/2023 2:00:33 AM
Surr: DNOP	91.8	69-147		%Rec	1	12/1/2023 2:00:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	2.5		mg/Kg	1	12/1/2023 4:37:15 AM
Surr: BFB	94.8	15-244		%Rec	1	12/1/2023 4:37:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.013		mg/Kg	1	12/1/2023 4:37:15 AM
Toluene	ND	0.025		mg/Kg	1	12/1/2023 4:37:15 AM
Ethylbenzene	ND	0.025		mg/Kg	1	12/1/2023 4:37:15 AM
Xylenes, Total	ND	0.050		mg/Kg	1	12/1/2023 4:37:15 AM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	12/1/2023 4:37:15 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	5400	300		mg/Kg	100	12/5/2023 1:25:47 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2311D82**
Date Reported: **12/13/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** BG-02 3-4'
Project: Pipeline ROW 1002 **Collection Date:** 11/28/2023 3:30:00 PM
Lab ID: 2311D82-036 **Matrix:** MEOH (SOIL) **Received Date:** 11/30/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/1/2023 2:24:21 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/1/2023 2:24:21 AM
Surr: DNOP	92.8	69-147		%Rec	1	12/1/2023 2:24:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	12/1/2023 5:00:23 AM
Surr: BFB	91.9	15-244		%Rec	1	12/1/2023 5:00:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.017		mg/Kg	1	12/1/2023 5:00:23 AM
Toluene	ND	0.034		mg/Kg	1	12/1/2023 5:00:23 AM
Ethylbenzene	ND	0.034		mg/Kg	1	12/1/2023 5:00:23 AM
Xylenes, Total	ND	0.069		mg/Kg	1	12/1/2023 5:00:23 AM
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	12/1/2023 5:00:23 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2300	60		mg/Kg	20	12/1/2023 3:20:52 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **MB-79090**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **79090**	RunNo: **101524**
Prep Date: **11/30/2023**	Analysis Date: **11/30/2023**	SeqNo: **3737347** Units: **mg/Kg**

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

Sample ID: **LCS-79090**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **79090**	RunNo: **101524**
Prep Date: **11/30/2023**	Analysis Date: **11/30/2023**	SeqNo: **3737348** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

Sample ID: **MB-79099**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **79099**	RunNo: **101539**
Prep Date: **12/1/2023**	Analysis Date: **12/1/2023**	SeqNo: **3739558** Units: **mg/Kg**

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

Sample ID: **LCS-79099**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **79099**	RunNo: **101539**
Prep Date: **12/1/2023**	Analysis Date: **12/1/2023**	SeqNo: **3739559** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Sample ID: **LCS-79248**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **79248**	RunNo: **101711**
Prep Date: **12/8/2023**	Analysis Date: **12/8/2023**	SeqNo: **3747629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Sample ID: **MB-79248**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **79248**	RunNo: **101711**
Prep Date: **12/8/2023**	Analysis Date: **12/8/2023**	SeqNo: **3747630** Units: **mg/Kg**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **MB-79079**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79079**	RunNo: **101511**
Prep Date: **11/30/2023**	Analysis Date: **11/30/2023**	SeqNo: **3736529** 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		94.5	69	147			

Sample ID: **LCS-79079**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79079**	RunNo: **101511**
Prep Date: **11/30/2023**	Analysis Date: **11/30/2023**	SeqNo: **3736530** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.6	61.9	130			
Surr: DNOP	4.6		5.000		92.9	69	147			

Sample ID: **2311D82-036AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BG-02 3-4'**	Batch ID: **79079**	RunNo: **101511**
Prep Date: **11/30/2023**	Analysis Date: **12/1/2023**	SeqNo: **3736552** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	8.6	42.81	0	103	54.2	135			
Surr: DNOP	4.2		4.281		98.5	69	147			

Sample ID: **2311D82-036AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BG-02 3-4'**	Batch ID: **79079**	RunNo: **101511**
Prep Date: **11/30/2023**	Analysis Date: **12/1/2023**	SeqNo: **3736553** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	8.7	43.25	0	103	54.2	135	1.14	29.2	
Surr: DNOP	4.3		4.325		99.4	69	147	0	0	

Sample ID: **MB-79236**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79236**	RunNo: **101709**
Prep Date: **12/7/2023**	Analysis Date: **12/8/2023**	SeqNo: **3747413** 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	11		10.00		111	69	147			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **LCS-79236**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79236**	RunNo: **101709**
Prep Date: **12/7/2023**	Analysis Date: **12/8/2023**	SeqNo: **3747414** 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	111	61.9	130			
Surr: DNOP	5.2		5.000		105	69	147			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737022** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	70	130			
Surr: BFB	2000		1000		197	15	244			

Sample ID: **2.5ug gro lcs-ii**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737023** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.4	70	130			
Surr: BFB	2000		1000		195	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737024** 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	990		1000		98.5	15	244			

Sample ID: **mb-ii**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737025** 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		93.5	15	244			

Sample ID: **2311d82-012ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-08 3-4'**	Batch ID: **GSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3737040** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.0	15.16	2.983	91.4	70	130			
Surr: BFB	1400		606.4		227	15	244			

Sample ID: **2311d82-012amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-08 3-4'**	Batch ID: **GSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3737041** Units: **mg/Kg**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **2311d82-012amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-08 3-4'**	Batch ID: **GSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3737041** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.0	15.16	2.983	94.3	70	130	2.56	20	
Surr: BFB	1400		606.4		234	15	244	0	0	

Sample ID: **lcs-79219**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **79219**	RunNo: **101707**
Prep Date: **12/7/2023**	Analysis Date: **12/9/2023**	SeqNo: **3748649** 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	90.0	70	130			
Surr: BFB	1900		1000		185	15	244			

Sample ID: **mb-79219**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **79219**	RunNo: **101707**
Prep Date: **12/7/2023**	Analysis Date: **12/9/2023**	SeqNo: **3748651** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.4	15	244			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737059** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.9	70	130			
Toluene	1.0	0.050	1.000	0	99.7	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.7	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737061** 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	0.97		1.000		96.7	39.1	146			

Sample ID: **mb-ii**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **11/30/2023**	SeqNo: **3737062** 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		94.3	39.1	146			

Sample ID: **2311d82-014ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SS-07 1-2'**	Batch ID: **BSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3737091** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.58	0.014	0.5787	0	100	70	130			
Toluene	0.61	0.029	0.5787	0.02888	101	70	130			
Ethylbenzene	0.58	0.029	0.5787	0	99.5	70	130			
Xylenes, Total	1.7	0.058	1.736	0.01753	98.8	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5787		93.6	39.1	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311D82**

13-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **2311d82-014amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SS-07 1-2'**	Batch ID: **BSS101521**	RunNo: **101521**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3737092** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.56	0.014	0.5787	0	97.4	70	130	2.86	20	
Toluene	0.60	0.029	0.5787	0.02888	97.9	70	130	2.69	20	
Ethylbenzene	0.57	0.029	0.5787	0	97.8	70	130	1.77	20	
Xylenes, Total	1.7	0.058	1.736	0.01753	97.0	70	130	1.79	20	
Surr: 4-Bromofluorobenzene	0.54		0.5787		92.7	39.1	146	0	0	

Sample ID: **LCS-79219**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **79219**	RunNo: **101707**
Prep Date: **12/7/2023**	Analysis Date: **12/9/2023**	SeqNo: **3748700** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.1	70	130			
Toluene	0.95	0.050	1.000	0	95.1	70	130			
Ethylbenzene	0.94	0.050	1.000	0	94.1	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.1	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Sample ID: **mb-79219**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **79219**	RunNo: **101707**
Prep Date: **12/7/2023**	Analysis Date: **12/9/2023**	SeqNo: **3748702** 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		94.5	39.1	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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 LLC | Work Order Number: 2311D82 | RcptNo: 1

Received By: Tracy Casarrubias 11/30/2023 8:00:00 AM

Completed By: Tracy Casarrubias 11/30/2023 8:30:06 AM

Reviewed By: JH 11.30.23

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. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
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: JH 11/30/23

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:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Yes	Morty		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

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

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

Turn-Around Time:
☐ Standard ☑ Rush 24 hours

Project Name: Pipeline ROW, 1002

Project #:

Project Manager: Kelly Lowery

Sampler: SK, SAM

On Ice: ☒ Yes ☐ No morty

# of Coolers: 1

Cooler Temp(including CF): 5.0 + 0.1 = 5.1°

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	Depth (ft)	Container Type and #	Preservative Type	HEAL No. 2311D82	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)	HOLD
11/28/2023	1028		BG-01	0-1	Jar 1	ice/cool	001	X	X					X				
	1029		BG-01	1-2			002	X	X					X				
	1028		BG-01	2-3			003	X	X					X				
	1028		BG-01	3-4			004	X	X					X				
	1107		SS-01	0-1			005											X
	1107		SS-01	1-2			006											X
	1107		SS-01	2-3			007	X	X					X				
	1107		SS-01	3-4			008	X	X					X				
	1140		SS-08	0-1			009											X
	1140		SS-08	1-2			010											X
	1140		SS-08	2-3			011	X	X					X				
↓	1140		SS-08	3-4	↓	↓	012	X	X					X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		Kaeli Shimada				9:58
					11/29/23	815
Date: 11/29/23	Time: 1900	Relinquished by:	Received by:	Via: courier	Date	Time
					11/30/23	8:00

Remarks: Bill to: Tom Long
Email: tjlong@eprod.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: N8788 3

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24hours

Project Name: Pipeline ROW, 1002

Project #: 03B1226313

Project Manager: Kelly Lowery

Sampler: SK, SAM

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.0 +0.1 = 5.1 °C

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	Depth (ft)	Container Type and #	Preservative Type	HEAL No. 2311D82	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)	hold
11/28/2023	1220	Soil	SS-07	0-1	Jar 1	ice/cool	013											X
	1220		SS-07	1-2			014	X	X					X				
	1220		SS-07	2-3			015											X
	1220		SS-07	3-4			016	X	X					X				
	1350		SS-04 3	0-1			017											X
	1350		SS-04 3	1-2			018											X
	1350		SS-04 3	2-3			019	X	X					X				
	1350		SS-04 3	3-4			020	X	X					X				
	1506		SS-06	0-1			021											X
	1506		SS-06	1-2			022											X
	1506		SS-06	2-3			023	X	X					X				
	1506		SS-06	3-4			024	X	X					X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		Kaeva Shimada			11/28/23	815
11/29/23	1900			courier	11/30/23	8:00

Remarks: Bill to: Tom Long
Email: tjlong@eprod.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: NG7883

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hours

Project Name: Pipeline ROW, 4002

Project #: 03B1226313

Project Manager: Kelly Lowery

Sampler: SK, SAM

On Ice: ☒ Yes ☐ No morty

# of Coolers: 1

Cooler Temp(including CF): 5.0+0.1=5.1°c

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

Date	Time	Matrix	Sample Name	Depth (ft)	Container Type and #	Preservative Type	HEAL No. 2311D82	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)	HOLD
11/28/2023	1430	Soil	SS-04	0-1	Jar 1	ice/coal	025											X
	1430		SS-04	1-2			026											X
	1430		SS-04	2-3			027	X	X					X				
	1430		SS-04	3-4			028	X	X					X				
	1527		SS-05	0-1			029											X
	1527		SS-05	1-2			030											X
	1527		SS-05	2-3			031	X	X					X				
	1527		SS-05	3-4			032	X	X					X				
	1530		BG-02	0-1			033											X
	1530		BG-02	1-2			034											X
	1530		BG-02	2-3			035	X	X					X				
	1530		BG-02	3-4			036	X	X					X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		Keven Shimeda			11/28/23	816
11/29/23	1900			Courier	11/30/23	8:00

Remarks: Bill to: Tom Long
Email: tjlong@eprod.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: N67883

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.

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 08, 2023

Kelly Lowery
Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Pipeline ROW 1002 OrderNo.: 2312008

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/1/2023 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 do not hesitate to contact Eurofins Albuquerque 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 **2312008**
Date Reported: **12/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-02 2-3
Project: Pipeline ROW 1002 **Collection Date:** 11/29/2023 10:45:00 AM
Lab ID: 2312008-003 **Matrix:** MEOH (SOIL) **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	54	9.4		mg/Kg	1	12/2/2023 7:46:01 PM
Motor Oil Range Organics (MRO)	110	47		mg/Kg	1	12/2/2023 7:46:01 PM
Surr: DNOP	113	69-147		%Rec	1	12/2/2023 7:46:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	12/1/2023 6:17:27 PM
Surr: BFB	94.1	15-244		%Rec	1	12/1/2023 6:17:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.015		mg/Kg	1	12/1/2023 6:17:27 PM
Toluene	ND	0.030		mg/Kg	1	12/1/2023 6:17:27 PM
Ethylbenzene	ND	0.030		mg/Kg	1	12/1/2023 6:17:27 PM
Xylenes, Total	ND	0.061		mg/Kg	1	12/1/2023 6:17:27 PM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	12/1/2023 6:17:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	4200	150		mg/Kg	50	12/4/2023 11:31:44 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2312008**
Date Reported: **12/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC
Client Sample ID: SS-02 3-4
Project: Pipeline ROW 1002
Collection Date: 11/29/2023 10:45:00 AM
Lab ID: 2312008-004 **Matrix:** SOIL **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/2/2023 12:16:54 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/2/2023 12:16:54 AM
Surr: DNOP	72.8	69-147		%Rec	1	12/2/2023 12:16:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/4/2023 12:27:05 PM
Surr: BFB	89.5	15-244		%Rec	1	12/4/2023 12:27:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	12/4/2023 12:27:05 PM
Toluene	ND	0.046		mg/Kg	1	12/4/2023 12:27:05 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/4/2023 12:27:05 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/4/2023 12:27:05 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146		%Rec	1	12/4/2023 12:27:05 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	5600	150		mg/Kg	50	12/4/2023 11:44:09 AM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312008**

08-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **MB-79108**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **79108**	RunNo: **101545**
Prep Date: **12/1/2023**	Analysis Date: **12/1/2023**	SeqNo: **3738655** Units: **mg/Kg**

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

Sample ID: **LCS-79108**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **79108**	RunNo: **101545**
Prep Date: **12/1/2023**	Analysis Date: **12/1/2023**	SeqNo: **3738656** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312008**

08-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **LCS-79098**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79098**	RunNo: **101534**
Prep Date: **12/1/2023**	Analysis Date: **12/1/2023**	SeqNo: **3738244** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.9	61.9	130			
Surr: DNOP	3.9		5.000		78.6	69	147			

Sample ID: **MB-79098**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79098**	RunNo: **101534**
Prep Date: **12/1/2023**	Analysis Date: **12/1/2023**	SeqNo: **3738246** 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	8.2		10.00		81.9	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312008**

08-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS101533**	RunNo: **101533**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3738198** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	70	130			
Surr: BFB	2000		1000		200	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS101533**	RunNo: **101533**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3738199** 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	920		1000		91.6	15	244			

Sample ID: **lcs-79101**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **79101**	RunNo: **101567**
Prep Date: **12/1/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740056** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.1	70	130			
Surr: BFB	1900		1000		192	15	244			

Sample ID: **mb-79101**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **79101**	RunNo: **101567**
Prep Date: **12/1/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740057** 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		93.0	15	244			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312008**

08-Dec-23

Client: Ensolum LLC

Project: Pipeline ROW 1002

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS101533**	RunNo: **101533**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3738202** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	70	130			
Toluene	1.0	0.050	1.000	0	100	70	130			
Ethylbenzene	0.98	0.050	1.000	0	98.3	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.6	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS101533**	RunNo: **101533**
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3738203** 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	0.92		1.000		92.1	39.1	146			

Sample ID: **LCS-79101**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **79101**	RunNo: **101567**
Prep Date: **12/1/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	70	130			
Toluene	0.92	0.050	1.000	0	92.1	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.8	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146			

Sample ID: **mb-79101**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **79101**	RunNo: **101567**
Prep Date: **12/1/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740092** 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	0.96		1.000		96.1	39.1	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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 LLC | Work Order Number: 2312008 | RcptNo: 1

Received By: Juan Rojas 12/1/2023 7:45:00 AM

Completed By: Desiree Dominguez 12/1/2023 8:31:28 AM

Reviewed By: 12-1-23

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. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
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: SCM 12/1/23

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:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hours

Project Name: Pipeline ROW, 1002

Project #: 03B1226313

Project Manager: Kelly Lowery

Sampler: SK, SAM

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Yogi

Cooler Temp (including CF): 1.9+0.1=2.0

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	Depth	Container Type and #	Preservative Type	HEAL No. 2312008	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)	Hold
11/29/2023	1045	soil	SS-02	0-1	Jar 1	ice/cool	-001											X
11/29	1045	soil	SS-02	1-2	Jar 1	ice/cool	-002											X
11/29	1045	Soil	SS-02	2-3	Jar 2	ice/cool	-003	X	X					X				
11/29	1045	Soil	SS-02	3-4	Jar 1	ice/cool	-004	X	X					X				

NFE

SK

Date	Time	Relinquished by	Received by	Via	Date	Time
11/30/23	730	Kaory Shimada				
11/30/23	1900			Courier	12/1/23	7:45

Remarks: Bill to: Tom Long
Email: tjlong@epord.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: N67883

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.

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 20, 2024

Kelly Lowery
Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Pipeline Row 1002 OrderNo.: 2402731

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 2/15/2024 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 do not hesitate to contact Eurofins Albuquerque 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 **2402731**
Date Reported: **2/20/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC **Client Sample ID:** SS-2
Project: Pipeline Row 1002 **Collection Date:** 2/13/2024 9:55:00 AM
Lab ID: 2402731-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/15/2024 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/15/2024 4:17:29 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/15/2024 4:17:29 PM
Surr: DNOP	81.8	61.2-134		%Rec	1	2/15/2024 4:17:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	2/15/2024 4:11:37 PM
Surr: BFB	111	15-244		%Rec	1	2/15/2024 4:11:37 PM

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	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402731**

20-Feb-24

Client: Ensolum LLC

Project: Pipeline Row 1002

Sample ID: **MB-80468**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **80468**	RunNo: **103130**
Prep Date: **2/15/2024**	Analysis Date: **2/15/2024**	SeqNo: **3813120** 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	6.6		10.00		66.2	61.2	134			

Sample ID: **LCS-80468**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **80468**	RunNo: **103130**
Prep Date: **2/15/2024**	Analysis Date: **2/15/2024**	SeqNo: **3813136** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	59.7	135			
Surr: DNOP	4.3		5.000		86.1	61.2	134			

Sample ID: **2402731-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SS-2**	Batch ID: **80468**	RunNo: **103130**
Prep Date: **2/15/2024**	Analysis Date: **2/15/2024**	SeqNo: **3813140** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.5	47.62	0	84.7	43.7	136			
Surr: DNOP	4.2		4.762		87.3	61.2	134			

Sample ID: **2402731-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SS-2**	Batch ID: **80468**	RunNo: **103130**
Prep Date: **2/15/2024**	Analysis Date: **2/15/2024**	SeqNo: **3813142** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.7	48.54	0	84.7	43.7	136	1.99	31.3	
Surr: DNOP	4.2		4.854		86.3	61.2	134	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402731**

20-Feb-24

Client: Ensolum LLC

Project: Pipeline Row 1002

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS103126**	RunNo: **103126**
Prep Date:	Analysis Date: **2/15/2024**	SeqNo: **3812740** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS103126**	RunNo: **103126**
Prep Date:	Analysis Date: **2/15/2024**	SeqNo: **3812741** 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	970		1000		96.9	15	244			

Sample ID: **2402731-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-2**	Batch ID: **GS103126**	RunNo: **103126**
Prep Date:	Analysis Date: **2/16/2024**	SeqNo: **3812743** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.7	18.74	0	96.8	70	130			
Surr: BFB	1500		749.6		206	15	244			

Sample ID: **2402731-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS-2**	Batch ID: **GS103126**	RunNo: **103126**
Prep Date:	Analysis Date: **2/16/2024**	SeqNo: **3812744** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.7	18.74	0	94.4	70	130	2.47	20	
Surr: BFB	1500		749.6		204	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 standard limits. If undiluted results may be estimated.		

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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 LLC** Work Order Number: **2402731** RcptNo: **1**

Received By: **Tracy Casarrubias** **2/15/2024 7:50:00 AM**

Completed By: **Tracy Casarrubias** **2/15/2024 8:04:36 AM**

Reviewed By: 2-15-24

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)? Samples not frozen — 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. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
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: 2/14/24

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:

Client did not relinquish chain of custody
Full address is missing on COC- TMC 2/15/24

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.3	Good	Yes	Yogi		

Chain-of-Custody Record

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

Client: Ensolum, LLC

Mailing Address: 601 N. Marienfeld St. Suite 400

Phone #: 214-733-3165

email or Fax#: klowery@ensolum.com

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☐ Standard ☑ Rush 24 hr

Project Name: Pipeline ROW 1002

Project #: 03B1226313

Project Manager: Kelly Lowery

Sampler:

On Ice: ☑ Yes ☐ No 409

# of Coolers: 1

Cooler Temp(including CF): -0.2-0.1= -0.3

Analysis Request

Date	Time	Matrix	Sample Name	Depth	Container Type and #	Preservative Type	HEAL No. 2402731	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)						
2-13-24	955	S	SS-2	3'	4oz	Ice	001		X														

NFE 2-13-24

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			[signature]		2/14/24	1010
2/14/24	1900	[signature]	[signature]	courier	2/15/24	7:50

Remarks: Bill to: ~~Tom Long~~ Robert Dunaway
Email: ~~tjlong@eprod.com~~ RHDunaway@eprod.com
Enterprise Field Services, LLC

Paykey/AFE/NonAFE: N67883

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.

ENSOLUM

APPENDIX F

Previous Report(s)

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TALON LPE

Closure Report

Pipeline Right of Way, 1002
Eddy County, New Mexico
Reference # fAB1629934423, nAB1629934570

Prepared For:

Enterprise Field Services LLC
PO Box 4324
Houston, Texas 77210

Prepared By:

Talon/LPE, Ltd.
2901 State Highway 349
Midland, Texas 79706

November 11, 2016

NMOCD
1301 W Grand Avenue
Artesia, New Mexico 88210

Subject: **Closure Report**
Pipeline Right of Way, 1002
Eddy County, New Mexico
Reference # fAB1629934423, nAB1629934570

To Whom It May Concern,

Enterprise Field Services LLC contracted Talon/LPE, Ltd. (Talon/LPE) to complete remediation and closure activities at the above referenced location. The incident description, soil sampling results, remedial actions, and closure request are presented herein.

Site Information

The Pipeline Right of Way, 1002 is located approximately 10.8 miles southeast of the city of Loving, New Mexico. The legal location for this release is Unit Letter D, Section 13, Township 25 South, and Range 28 East in Eddy County, New Mexico. The latitude and longitude for the site is 32.134004°, -104.046157°. Site maps are presented in Attachment I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soils in the area are made up of Russler loam with 1 to 3 percent slopes. The referenced soil data is presented in Attachment II. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of eolian and piedmont deposits, Holocene to middle Pleistocene in age.

Groundwater and Site Characterization

Based on New Mexico Office of the State Engineer Database, the nearest reported groundwater depth is 105 feet below ground surface (bgs) but is located greater than 0.5 miles from the subject site. The FEMA Flood Map Service Center does not locate the site in a 100-year flood plain. See Attachment II for the site characterization data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred in an area where the groundwater is less than 50 feet bgs in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater		105 ft bgs
Yes	**No**	
✖	☐	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐	✖	Within 200 feet of any lakebed, sinkhole or a playa lake
☐	✖	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
☐	✖	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
☐	✖	Within 1000 feet of any freshwater well or spring
☐	✖	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☐	✖	Within 300 feet of a wetland
☐	✖	Within the area overlying a subsurface mine
☐	✖	Within an unstable area
☐	✖	Within a 100-year floodplain

With no depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within ½ mile of the site and due to the a surface watercourse being within 300 feet of the release, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Table I - Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On October 14, 2016, approximately 83 thousand cubic feet (MCF) of natural gas and one (1) gallon (gal) of pipeline liquid was lost with zero (0) MCF and gal recovered, resulting in a net loss 83 MCF and one (1) gal of pipeline liquid. The one (1) gal of liquid was released into Salt Draw. Salt Draw is an ephemeral stream that has down cut through thick bedded gypsum.

The confluence with the Pecos River is approximately 0.76 miles downstream of the release point. The release was reported to the NMOCD and was assigned reference # fAB1629934423, nAB1629934570.

Site maps of the release are presented in Attachment I. Initial C-141 spill notification was filed with the NMOCD and is attached in Attachment III.

Remediation Activities

On October 14, 2016, Talon/LPE personnel removed all liquid hydrocarbons from the impacted surface water in Salt Draw. New Mexico Rentals (NMR) utilized a rubber tired backhoe to build two containment dams with clean material on the northwest and south of the release location to prevent any potential contaminated surface water from spreading.

From October 17, 2016, to October 19, 2016, NMR removed all potentially impacted surface water and the section of the pipe that traverses Salt Draw. The pipeline to the north side of Salt Draw was blocked in and bound.

On October 26, 2016, NMR conducted additional soil remediation activities under the supervision of Talon/LPE. During that time, impacted soil was mixed and blended utilizing excavation equipment. Blending promotes bio-remediation, which attenuates petroleum hydrocarbon concentrations. Blending reduces petroleum hydrocarbon concentrations by volatizing the light-end aromatic compounds, and exposure to oxygen promotes microbial growth in order to bio-remediate the remaining aromatic and aliphatic compounds. On October 31, 2016, excavation equipment was utilized to excavate impacted soil from the affected area. Approximately five (5) cubic yards of impacted soil was stockpiled on site in preparation for disposal to an OCD approved facility.

The final excavation limits were initially determined using a Photoionization Detector (PID). Laboratory analyses of samples collected at the bottom of the excavation were used to confirm when regulatory cleanup levels were achieved.

The final excavation limits measured approximately nine (9) square feet. Photographic Documentation of excavation activities is presented in Attachment IV.

Site Assessment Activities

Following initial remediation activities, confirmation soil samples were collected on October 19, 2016. Seven (7) confirmation soil samples were collected and designated as (SS-1, SS-2, SS-3, SS-4, SS-5, SS-6, and SS-7) at depths ranging from one (1) ft bgs to two (2) ft bgs. Following further remediation activities one (1) additional confirmation soil sample designated as (SS-5B) was collected at two (2) ft bgs. One (1) final confirmation soil sample designated as (SS-5C) was collected following excavation activities at five (5) ft bgs. The soil samples were collected by Talon/LPE personnel using industry accepted, standard operating procedures.

Talon/LPE personnel collected soil samples for benzene, toluene, ethylbenzene and total xylenes (BTEX, Method EPA 8021B) and total petroleum hydrocarbons (TPH, Method SW8015B Mod), concentrations. The samples were collected in laboratory provided sample containers, immediately placed in an ice-chilled cooler, and transported to Xenco Laboratories in Midland, Texas.

Initial laboratory analytical results indicated that TPH concentrations for all samples collected on October 19, 2016, excluding SS-5 were below the regulatory clean-up levels of 100 mg/kg. Laboratory results for SS-5 indicated TPH concentrations of 792 mg/kg. Laboratory results indicated that BTEX and Benzene concentrations for all soil samples collected on October 19, 2016, were below the regulatory clean-up levels of 50 mg/kg and 10 mg/kg, respectfully. Laboratory analytical results for the soil sample (SS-5B) collected on October 26, 2016, indicated TPH concentrations of 237.4 mg/kg, which is above the regulatory clean-up levels. Laboratory analytical results indicated the TPH concentrations for the soil sample (SS-5C) collected on October 31, 2016, were below the laboratory detectable limits.

Results from the initial sampling event are presented on the following data table and the complete laboratory reports can be found in Attachment V. Sample locations are shown on the attached Figure 3 in Attachment I.

Table I - Site Assessment Analytical Data

Sample ID	Sample Date	BTEX	Benzene	GRO	DRO	Total TPH
NMOCD Table 1 Closure Criteria 19.15.29 NMAC		50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg		100 mg/kg
SS-1	10/19/16	ND	ND	ND	ND	ND
SS-2	10/19/16	ND	ND	ND	ND	ND
SS-3	10/19/16	ND	ND	ND	20.0	20.0

Sample ID	Sample Date	BTEX	Benzene	GRO	DRO	Total TPH
SS-4	10/19/16	ND	ND	17.8	69.0	86.8
SS-5	10/19/16	0.00688	ND	**115**	**677**	**792**
SS-5B	10/26/16	0.0455	ND	50.4	**187**	**237.4**
SS-5C	10/31/16	ND	ND	ND	ND	ND
SS-6	10/19/16	ND	ND	ND	18.3	18.3
SS-7	10/19/16	ND	ND	ND	20.7	20.7

ND = Analyte Not Detected
All results are reported in milligrams per kilogram (mg/kg)
Bolded values are in excess of the NMOCD Remediation Thresholds

Remedial Action Summary

- A natural gas and pipeline liquid release was reported by Enterprise at the site on October 14, 2016, as a result of a pipeline leak to the 1002 pipeline. Enterprise personnel estimated 83 MCF and one (1) gal of pipeline liquid were released and zero (0) MCF and liquid were recovered.
- Remediation and excavation activities were conducted by Talon/LPE and NMR personnel from October 14, 2016, to October 31, 2016. Excavated material was stockpiled on site in preparation for disposal at an OCD approved facility. The final excavation limits measured approximately nine (9) square feet.
- Pursuant to NMOCD guidance, confirmation soil samples were collected and analyzed for TPH and BTEX to ensure all areas reached NMOCD closure criteria.
- Copies of the Final C-141s are presented in Attachment III.
- Photographic documentation is provided in Attachment IV.

Closure

Based on the site assessment and characterization data, remedial actions completed, and confirmation sampling results obtained for this project, on behalf of Enterprise Field Services LLC, we respectfully request that no further actions be required and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 210-579-0235.

Respectfully submitted,
Talon/LPE, Ltd.

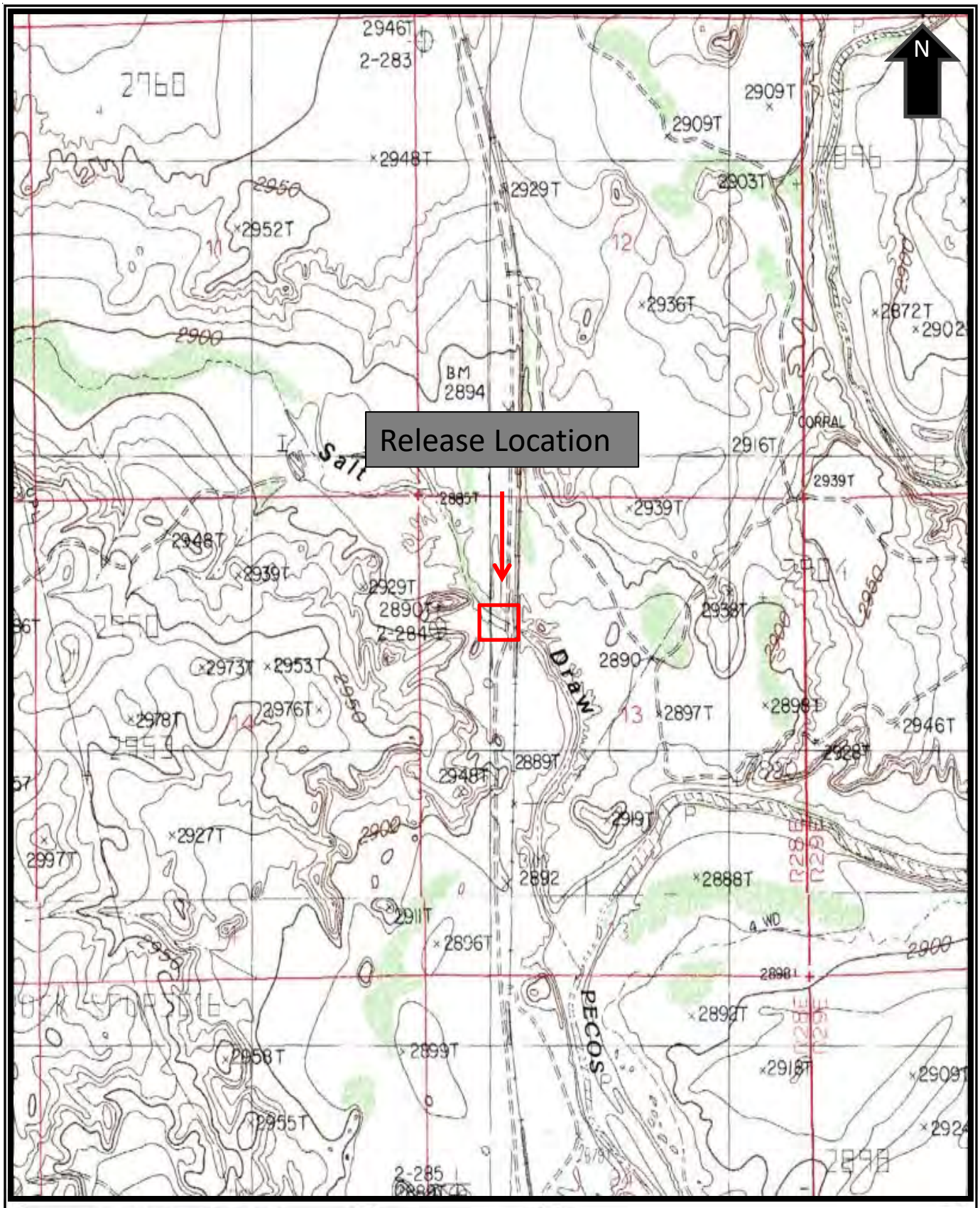
Brian Payton
Project Manager

Attachments:

Attachment I	Site Maps
Attachment II	Groundwater and Soil Data, FEMA Flood Map
Attachment III	C-141 Form
Attachment IV	Photographic Documentation
Attachment V	Laboratory Analytical Data

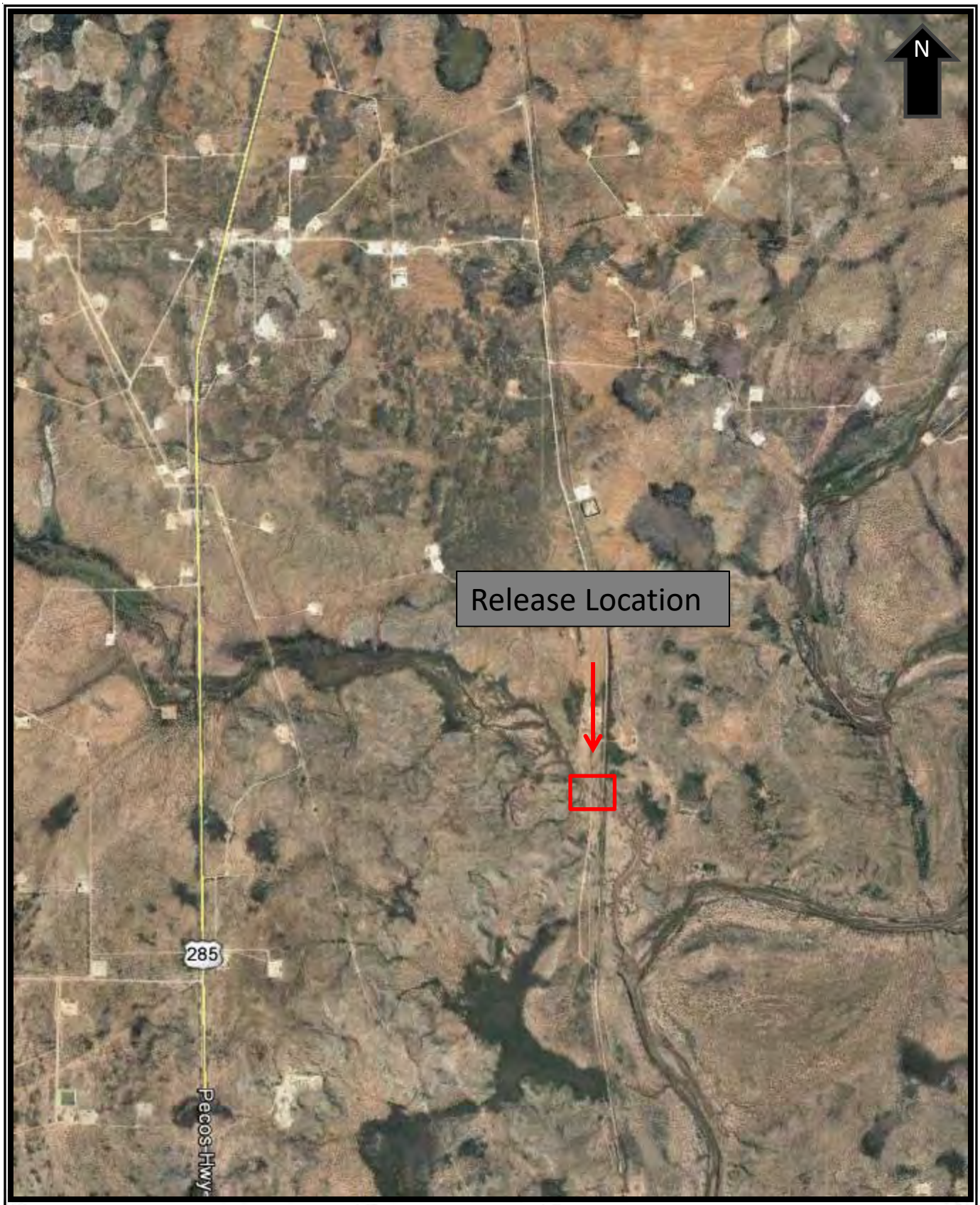
ATTACHMENT I

Site Maps

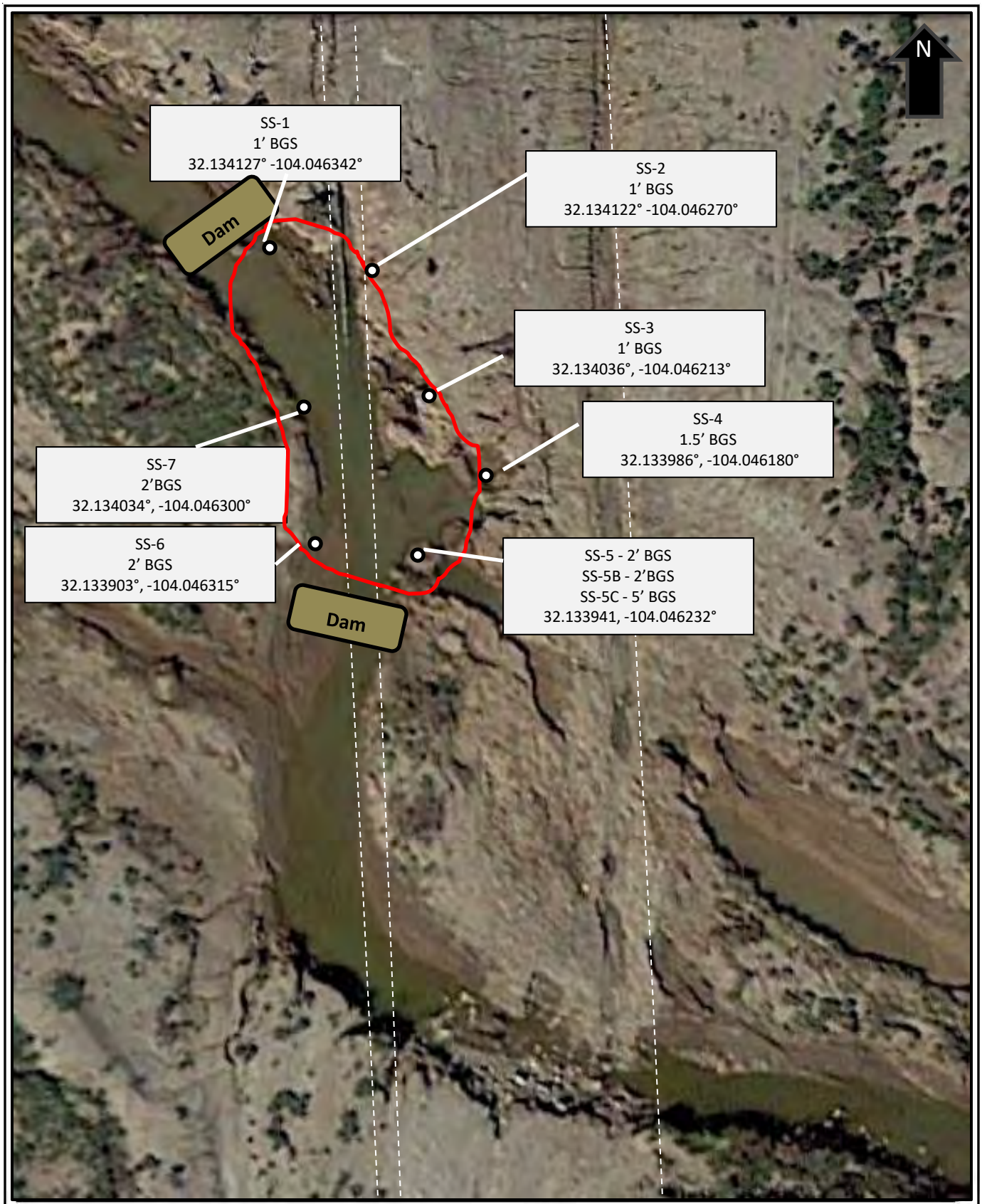


Date:	11/8/2016
Scale:	Not to Scale
Drawn By:	BHP

FIGURE 1
TOPOGRAPHIC MAP
Salt Draw
Prepared For: Enterprise Products
Eddy County, New Mexico



TALON LPE	Date: 11/8/2016 Scale: Not to Scale Drawn By: BHP	**FIGURE 2** AERIAL MAP Salt Draw Prepared For: Enterprise Products Eddy County, New Mexico



TALON LPE

Date:	11/8/2106
Scale:	Not to Scale
Drawn By:	BHP

FIGURE 3
SITE DETAILS AND SAMPLE LOCATIONS
Salt Draw
Prepared For: Enterprise Products
Eddy County, New Mexico

ATTACHMENT II

Groundwater and Soil Data, FEMA Flood Map

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04660 POD1		CUB	ED	2	1	2	22	25S	28E	587519	3554290	2817	105		
C 01453		C	ED		1	2	26	25S	28E	589096	3552612*	3196	70	40	30
C 04493 POD1		CUB	ED	4	4	4	06	25S	29E	592760	3557765	3482	57	39	18
C 01522		C	ED			1	22	25S	28E	586843	3554004*	3547	150		
C 01337		C	ED		2	1	30	25S	29E	591926	3552642*	3622	180	30	150
C 01880		C	ED	3	3	2	06	25S	29E	592161	3558605*	3651	85	40	45
C 02518		C	ED		3	4	08	25S	29E	593895	3556300*	3976	462		
C 01411 POD2		C	ED	4	2	4	04	25S	28E	586374	3558036	4291	90	50	40
C 04715 POD1		CUB	ED	3	4	4	34	24S	28E	587786	3559440	4339	40		
C 02668		C	ED	2	1	2	09	25S	28E	585890	3557525*	4470	150		
C 01411	R	C	ED	4	4	2	04	25S	28E	586289	3558522*	4642	69	35	34
C 04324 POD12		CUB	ED	2	2	2	08	25S	29E	594476	3557627	4909	65	60	5
C 04503 POD1		CUB	ED	4	3	3	09	25S	29E	594884	3556142	4938			
C 04324 POD8		CUB	ED	4	4	4	05	25S	29E	594442	3557807	4952	69	65	4
C 04324 POD6		CUB	ED	1	1	1	09	25S	29E	594538	3557657	4979	62	61	1
C 04324 POD10		CUB	ED	1	1	1	09	25S	29E	594563	3557603	4980	65	60	5
C 04324 POD11		CUB	ED	1	1	1	09	25S	29E	594576	3557619	4999	61	61	0

Average Depth to Water: **49 feet**

Minimum Depth: **30 feet**

Maximum Depth: **65 feet**

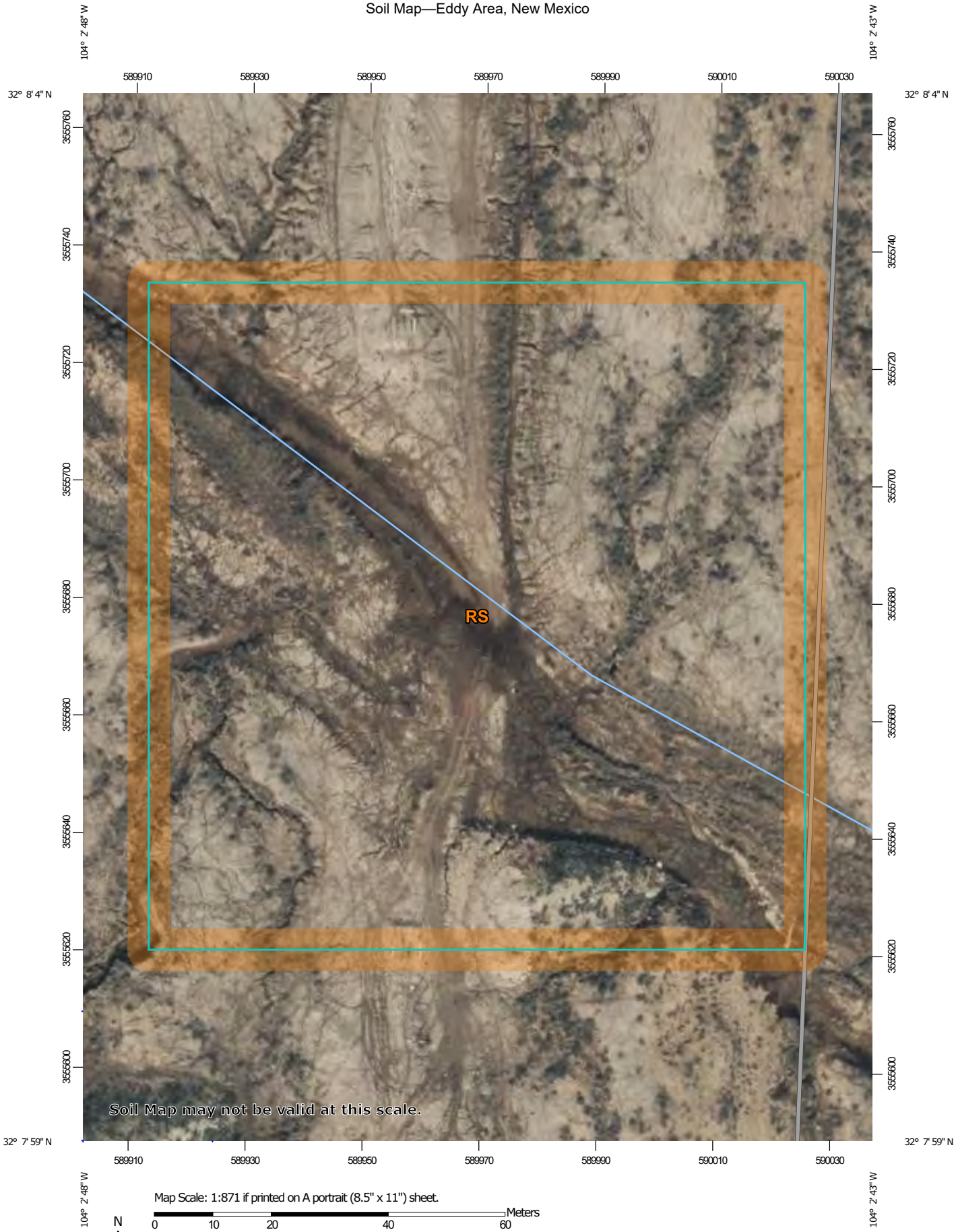
Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 589965.584 **Northing (Y):** 3555687.691 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

Soil Map—Eddy Area, New Mexico



Map Scale: 1:871 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 10 20 40 60

Feet
0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RS	Russler loam, 1 to 3 percent slopes	3.2	100.0%
Totals for Area of Interest		**3.2**	**100.0%**

Eddy Area, New Mexico

RS—Russler loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5j
Elevation: 1,250 to 5,300 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Russler and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Russler

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

H1 - 0 to 11 inches: loam
H2 - 11 to 45 inches: clay loam
H3 - 45 to 60 inches: gypsiferous material

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 60 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 40 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: C
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Cottonwood
Percent of map unit: 1 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

Reeves
Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Reagan
Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

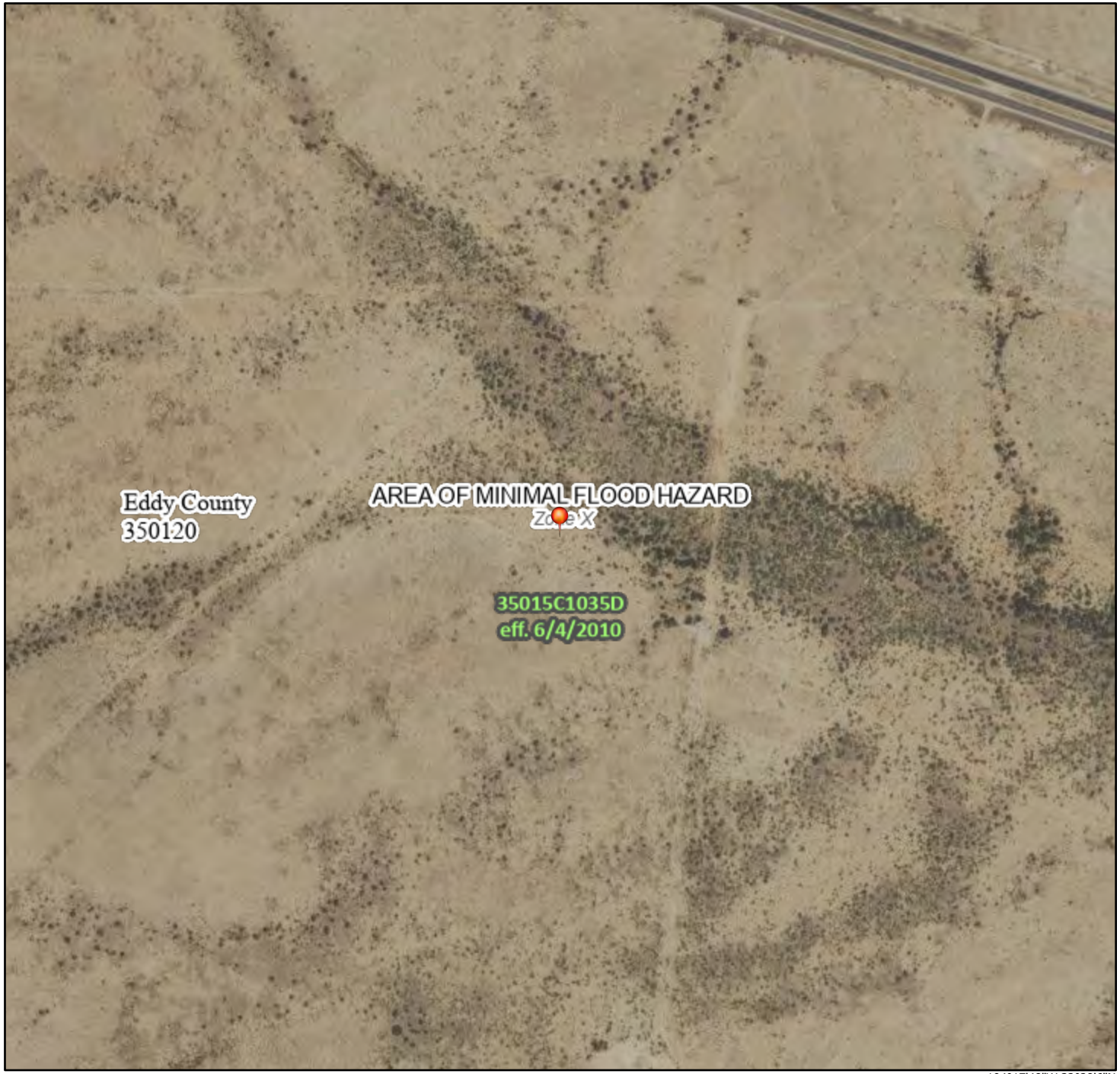
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette

FEMA

104°18'26"W 32°28'36"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°17'48"W 32°28'6"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/12/2023 at 6:25 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ATTACHMENT III

C-141 Form

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-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company *Enterprise Field Services LLC*	Contact *Alena Miro*
PO Box 4324, Houston, TX 77210	Telephone No. *575-628-6802*
Facility Name *Pipeline ROW, 1002*	Facility Type: *Gas Gathering Pipeline*

Surface Owner *Henry McDonald*	Mineral Owner *NA - Pipeline*	Lease No. *NA*

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	*13*	*25S*	*28E*	*85*	*South*	*310*	*East*	*Eddy*

Latitude: *N 32.134004* **Longitude:** *W -104.046157*

NATURE OF RELEASE

Type of Release *Natural Gas and Pipeline Liquid*	Volume of Release: *83 MCF gas and 1 gallon of liquid*	Volume Recovered: *N/A*
Source of Release *Pipeline Leak*	Date and Hour of Occurrence *10/14/2016 @ 11:15 MST*	Date and Hour of Discovery *10/14/2016 @ 11:15 MST*
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? *Mike Bratcher*	
By Whom? *Alena Miro*	Date and Hour *10/14/2016 @ 11:27 MST*	
Was a Watercourse Reached? ☒ Yes ☒ No	If YES, Volume Impacting the Watercourse. *1 gallon*	

If a Watercourse was Impacted, Describe Fully.*
On October 14, 2016, it was discovered that pipeline liquids were released into Salt Draw. The NRC and NMOCD were notified immediately upon discovery 10/14/2016 @ 11:20 MST. Salt Draw is an ephemeral stream that has down cut through thick bedded gypsum. The confluence with the Pecos River is approximately 0.76 miles downstream of the release point.

Describe Cause of Problem and Remedial Action Taken.*
Natural gas and pipeline liquids were released due to a pipeline leak. The pipeline segment was isolated and blown down. Following repair, the section of pipe traversing the draw will be taken out of service and abandoned. The pipeline to the north side of the draw is blocked in and blinded. The pipeline to the south side of the draw will be pigged to remove residual liquids and then returned to service.

Describe Area Affected and Cleanup Action Taken.*
At the time of the release the draw contained rainwater; however, a natural dirt berm in the draw contained the water and prevented it from flowing downstream during the release. All pipeline fluids and potentially affected rainwater were removed from the draw. Clean-up action will follow Enterprise Field Services General Release Notification, Response and Remediation Plan(March 9, 2015) and closure report submitted.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: *Jon E. Fields*	Approved by District Supervisor:	
Title: *Director, Field Environmental*	Approval Date:	Expiration Date:
E-mail Address: *jefields@eprod.com*	Conditions of Approval:	Attached ☐
Date: *10/21/2016* Phone: *713-381-6684*		

* Attach Additional Sheets If Necessary

ATTACHMENT IV

Photographic Documentation

Photograph No. 1 Description:	Northwest. View of impacted surface water.

Photograph No. 2 Description:	Southeast. View of soil impacted by Natural Gas liquid release on the bank of the Salt Draw.

Photograph No. 3 Description:	Southwest. View of the northwest containment dam

Photograph No. 4 Description:	Southwest. View of the southeast containment dam.

Photograph No. 5 Description:	Northwest. Mixing and blending activities.

Photograph No. 6 Description:	North. View of excavation activities.

Photograph No. 7 Description:	Southwest. Stockpile of excavated soil prior to disposal.

Photograph No. 8 Description:	Southwest. Site following all remediation and excavation activities.

ATTACHMENT V

Laboratory Analytical Data

Analytical Report 539006

for

Talon/LPE Co.

Project Manager: Melissa Gilliland

Enterprise Salt Draw

700348.346.02

21-OCT-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Table of Contents

21-OCT-16

Project Manager: **Melissa Gilliland**
Talon/LPE Co.
2901 S State Highway 349
Midland, TX 79706

Reference: XENCO Report No(s): **539006**
Enterprise Salt Draw
Project Address: Eddy Co TX

Melissa Gilliland:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 539006. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 539006 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks
Project Manager

Sample Cross Reference 539006

Talon/LPE Co., Midland, TX

Enterprise Salt Draw

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	10-19-16 11:30		539006-001
SS-2	S	10-19-16 11:40		539006-002
SS-3	S	10-19-16 11:50		539006-003
SS-4	S	10-19-16 12:00		539006-004
SS-5	S	10-19-16 12:10		539006-005
SS-6	S	10-19-16 12:20		539006-006
SS-7	S	10-19-16 12:30		539006-007

CASE NARRATIVE

Client Name: Talon/LPE Co.

Project Name: Enterprise Salt Draw

Project ID: *700348.346.02*
Work Order Number(s): *539006*

Report Date: *21-OCT-16*
Date Received: *10/20/2016*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3002490 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 539006

Talon/LPE Co., Midland, TX

Project Name: Enterprise Salt Draw

Project Id: 700348.346.02
Contact: Melissa Gilliland
Project Location: Eddy Co TX

Date Received in Lab: Thu Oct-20-16 02:45 pm
Report Date: 21-OCT-16
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	539006-001		539006-002		539006-003		539006-004		539006-005		539006-006	
	Field Id:	SS-1		SS-2		SS-3		SS-4		SS-5		SS-6	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-19-16 11:30		Oct-19-16 11:40		Oct-19-16 11:50		Oct-19-16 12:00		Oct-19-16 12:10		Oct-19-16 12:20	
BTEX by EPA 8021B	***Extracted:***	Oct-20-16 18:30		Oct-20-16 18:30		Oct-20-16 18:30		Oct-20-16 18:30		Oct-20-16 18:30		Oct-20-16 18:30	
	Analyzed:	Oct-21-16 12:51		Oct-21-16 13:07		Oct-21-16 14:44		Oct-21-16 13:39		Oct-21-16 13:56		Oct-21-16 15:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00150	ND	0.00149	ND	0.00150	ND	0.00149	ND	0.00149	ND	0.00150
Toluene		ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00198	ND	0.00199	ND	0.00200
Ethylbenzene		ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00198	ND	0.00199	ND	0.00200
m,p-Xylenes		ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00198	0.00688	0.00199	ND	0.00200
o-Xylene		ND	0.00299	ND	0.00299	ND	0.00300	ND	0.00298	ND	0.00299	ND	0.00300
Total Xylenes		ND	0.00200	ND	0.00199	ND	0.00200	ND	0.00198	0.00688	0.00199	ND	0.00200
Total BTEX		ND	0.00150	ND	0.00149	ND	0.00150	ND	0.00149	0.00688	0.00149	ND	0.00150
TPH By SW8015B Mod	***Extracted:***	Oct-21-16 10:00		Oct-21-16 10:00		Oct-21-16 10:00		Oct-21-16 10:00		Oct-21-16 10:00		Oct-21-16 10:00	
	Analyzed:	Oct-21-16 12:10		Oct-21-16 12:39		Oct-21-16 13:12		Oct-21-16 13:41		Oct-21-16 14:08		Oct-21-16 14:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0	17.8	15.0	115	14.9	ND	15.0
C10-C28 Diesel Range Hydrocarbons		ND	15.0	ND	15.0	20.0	15.0	69.0	15.0	677	14.9	18.3	15.0

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

Final 1.000

Certificate of Analysis Summary 539006

Talon/LPE Co., Midland, TX

Project Name: Enterprise Salt Draw

Project Id: 700348.346.02
Contact: Melissa Gilliland
Project Location: Eddy Co TX

Date Received in Lab: Thu Oct-20-16 02:45 pm
Report Date: 21-OCT-16
Project Manager: Kelsey Brooks

Analysis Requested							
	Lab Id:	539006-007					
	Field Id:	SS-7					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Oct-19-16 12:30					
BTEX by EPA 8021B	***Extracted:***	Oct-20-16 18:30					
	Analyzed:	Oct-21-16 14:29					
	Units/RL:	mg/kg	RL				
Benzene		ND	0.00149				
Toluene		ND	0.00199				
Ethylbenzene		ND	0.00199				
m,p-Xylenes		ND	0.00199				
o-Xylene		ND	0.00298				
Total Xylenes		ND	0.00199				
Total BTEX		ND	0.00149				
TPH By SW8015B Mod	***Extracted:***	Oct-21-16 10:00					
	Analyzed:	Oct-21-16 15:07					
	Units/RL:	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	15.0				
C10-C28 Diesel Range Hydrocarbons		20.7	15.0				

Kelsey Brooks
Project Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539006,

Project ID: 700348.346.02

Lab Batch #: 3002491 **Sample:** 539006-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 12:10

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.8	111	70-135	
o-Terphenyl	60.5	49.9	121	70-135	

Lab Batch #: 3002491 **Sample:** 539006-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 12:39

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.7	105	70-135	
o-Terphenyl	56.1	49.9	112	70-135	

Lab Batch #: 3002490 **Sample:** 539006-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 12:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 3002490 **Sample:** 539006-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 13:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 3002491 **Sample:** 539006-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 13:12

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	54.7	49.9	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539006,

Project ID: 700348.346.02

Lab Batch #: 3002490 **Sample:** 539006-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 13:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0352	0.0300	117	80-120	

Lab Batch #: 3002491 **Sample:** 539006-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 13:41

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.9	105	70-135	
o-Terphenyl	55.7	50.0	111	70-135	

Lab Batch #: 3002490 **Sample:** 539006-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 13:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 3002491 **Sample:** 539006-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 14:08

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.6	111	70-135	
o-Terphenyl	58.5	49.8	117	70-135	

Lab Batch #: 3002490 **Sample:** 539006-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 14:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539006,

Project ID: 700348.346.02

Lab Batch #: 3002491 **Sample:** 539006-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 14:37

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 3002490 **Sample:** 539006-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 14:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 3002491 **Sample:** 539006-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 15:07

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.9	105	70-135	
o-Terphenyl	56.3	50.0	113	70-135	

Lab Batch #: 3002490 **Sample:** 539006-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/21/16 15:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 3002491 **Sample:** 715247-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/21/16 10:45

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539006,

Project ID: 700348.346.02

Lab Batch #: 3002490 **Sample:** 715230-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/21/16 15:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 3002490 **Sample:** 715230-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/20/16 18:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 3002491 **Sample:** 715247-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/21/16 11:12

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

Lab Batch #: 3002490 **Sample:** 715230-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/20/16 19:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 3002491 **Sample:** 715247-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/21/16 11:42

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539006,

Project ID: 700348.346.02

Lab Batch #: 3002490 **Sample:** 538987-008 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/20/16 19:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Lab Batch #: 3002490 **Sample:** 538987-008 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/20/16 19:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Enterprise Salt Draw

Work Order #: 539006 **Project ID:** 700348.346.02

Analyst: PJB **Date Prepared:** 10/20/2016 **Date Analyzed:** 10/20/2016

Lab Batch ID: 3002490 **Sample:** 715230-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.0898	90	0.100	0.0914	91	2	70-130	35	
Toluene	<0.00200	0.100	0.0924	92	0.100	0.0940	94	2	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0952	95	0.100	0.0978	98	3	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.194	97	0.200	0.200	100	3	70-135	35	
o-Xylene	<0.00300	0.100	0.0962	96	0.100	0.0990	99	3	71-133	35	

Analyst: ARM **Date Prepared:** 10/21/2016 **Date Analyzed:** 10/21/2016

Lab Batch ID: 3002491 **Sample:** 715247-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	937	94	1000	981	98	5	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	944	94	1000	989	99	5	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Enterprise Salt Draw

Work Order # : 539006 **Project ID:** 700348.346.02

Lab Batch ID: 3002490 **QC- Sample ID:** 538987-008 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/20/2016 **Date Prepared:** 10/20/2016 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.0813	81	0.0994	0.0837	84	3	70-130	35	
Toluene	0.0147	0.100	0.0929	78	0.0994	0.0990	85	6	70-130	35	
Ethylbenzene	0.0165	0.100	0.0864	70	0.0994	0.0974	81	12	71-129	35	X
m,p-Xylenes	0.0565	0.200	0.199	71	0.199	0.220	82	10	70-135	35	
o-Xylene	0.0234	0.100	0.106	83	0.0994	0.113	90	6	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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Service Center - San Antonio, Texas (210-509-3334) | www.xenco.com

Xenco Quote # | Xenco Job # 5390006

Client / Reporting Information

Company Name / Branch: Talon LPE
Company Address: Midland TX
Email: mgilliland@talonlpe.com Phone No:
Project Contact: Melissa Gilliland
Samplers's Name: Brian Payton

Project Information 700348.346.02

Project Name/Number: Enterprise Salt Draw
Project Location: Eddy Co. NM
Invoice To: Accounting
PO Number:

Analytical Information

TPH 8015 GRO-DRO
BTEX 8021

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	None	Field Comments
1	SS-1		10-19-21	1130	S	1								X	
2	SS-2			1140											
3	SS-3			1150											
4	SS-4			1200											
5	SS-5			1210											
6	SS-6			1220											
7	SS-7			1230											
8															
9															
10															

Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	B. P.	10-20 1445	DRAMEK	10/20/10 1445		2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X

Temp: IR ID:R-8
CF:+ 0.1 5.3
Corrected Temp: 5.4C

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previ

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon/LPE Co.

Date/ Time Received: 10/20/2016 02:45:00 PM

Work Order #: 539006

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.4
#2 *Shipping container in good condition?	**N/A**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer
Jessica Kramer
Date: 10/20/2016

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 10/20/2016

Analytical Report 539292

for

Talon/LPE Co.

Project Manager: Melissa Gilliland

Enterprise Salt Draw

27-OCT-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Table of Contents

27-OCT-16

Project Manager: **Melissa Gilliland**
Talon/LPE Co.
2901 S State Highway 349
Midland, TX 79706

Reference: XENCO Report No(s): **539292**
Enterprise Salt Draw
Project Address: Eddy Co TX

Melissa Gilliland:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 539292. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 539292 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks
Project Manager

Sample Cross Reference 539292

Talon/LPE Co., Midland, TX

Enterprise Salt Draw

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-5B	S	10-26-16 09:30		539292-001

CASE NARRATIVE

Client Name: Talon/LPE Co.

Project Name: Enterprise Salt Draw

Project ID:
Work Order Number(s): *539292*

Report Date: *27-OCT-16*
Date Received: *10/26/2016*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3002738 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 539292

Talon/LPE Co., Midland, TX

Project Name: Enterprise Salt Draw

Project Id:
Contact: Melissa Gilliland
Project Location: Eddy Co TX

Date Received in Lab: Wed Oct-26-16 04:10 pm
Report Date: 27-OCT-16
Project Manager: Kelsey Brooks

Analysis Requested								
	Lab Id:	539292-001						
	Field Id:	SS-5B						
	Depth:							
	Matrix:	SOIL						
	Sampled:	Oct-26-16 09:30						
BTEX by EPA 8021B	***Extracted:***	Oct-26-16 16:30						
	Analyzed:	Oct-26-16 21:09						
	Units/RL:	mg/kg	RL					
Benzene		ND	0.00150					
Toluene		0.00699	0.00200					
Ethylbenzene		0.00411	0.00200					
m,p-Xylenes		0.0205	0.00200					
o-Xylene		0.0139	0.00299					
Total Xylenes		0.0344	0.00200					
Total BTEX		0.0455	0.00150					
TPH By SW8015B Mod	***Extracted:***	Oct-26-16 17:00						
	Analyzed:	Oct-27-16 02:54						
	Units/RL:	mg/kg	RL					
C6-C10 Gasoline Range Hydrocarbons		50.4	15.0					
C10-C28 Diesel Range Hydrocarbons		187	15.0					

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539292,

Project ID:

Lab Batch #: 3002738 **Sample:** 539292-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/26/16 21:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 3002771 **Sample:** 539292-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/27/16 02:54

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.8	123	70-135	
o-Terphenyl	64.4	49.9	129	70-135	

Lab Batch #: 3002738 **Sample:** 715411-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/26/16 14:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 3002771 **Sample:** 715414-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/27/16 01:41

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	64.6	50.0	129	70-135	

Lab Batch #: 3002738 **Sample:** 715411-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/26/16 13:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539292,

Project ID:

Lab Batch #: 3002771 **Sample:** 715414-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/27/16 02:06

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	59.2	50.0	118	70-135	

Lab Batch #: 3002738 **Sample:** 715411-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/26/16 13:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

Lab Batch #: 3002771 **Sample:** 715414-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/27/16 02:31

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	57.4	50.0	115	70-135	

Lab Batch #: 3002738 **Sample:** 539255-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/26/16 13:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 3002771 **Sample:** 539292-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/27/16 03:20

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	99.8	128	70-135	
o-Terphenyl	61.1	49.9	122	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539292,

Project ID:

Lab Batch #: 3002738 **Sample:** 539255-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/26/16 13:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 3002771 **Sample:** 539292-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/27/16 03:45

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	61.7	50.0	123	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Enterprise Salt Draw

Work Order #: 539292 **Project ID:**

Analyst: PJB **Date Prepared:** 10/26/2016 **Date Analyzed:** 10/26/2016

Lab Batch ID: 3002738 **Sample:** 715411-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.101	101	0.100	0.0983	98	3	70-130	35	
Toluene	<0.00200	0.100	0.103	103	0.100	0.100	100	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.102	102	0.100	0.0981	98	4	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.204	102	0.200	0.195	98	5	70-135	35	
o-Xylene	<0.00300	0.100	0.102	102	0.100	0.0969	97	5	71-133	35	

Analyst: ARM **Date Prepared:** 10/26/2016 **Date Analyzed:** 10/27/2016

Lab Batch ID: 3002771 **Sample:** 715414-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	985	99	1000	1010	101	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	974	97	1000	998	100	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Enterprise Salt Draw

Work Order # : 539292 **Project ID:**

Lab Batch ID: 3002738 **QC- Sample ID:** 539255-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/26/2016 **Date Prepared:** 10/26/2016 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00149	0.0994	0.0929	93	0.0990	0.0927	94	0	70-130	35	
Toluene	<0.00199	0.0994	0.0911	92	0.0990	0.0917	93	1	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.0869	87	0.0990	0.0858	87	1	71-129	35	
m,p-Xylenes	<0.00199	0.199	0.172	86	0.198	0.169	85	2	70-135	35	
o-Xylene	<0.00298	0.0994	0.0858	86	0.0990	0.0836	84	3	71-133	35	

Lab Batch ID: 3002771 **QC- Sample ID:** 539292-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/27/2016 **Date Prepared:** 10/26/2016 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	50.4	998	1060	101	1000	1090	104	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	187	998	1190	101	1000	1140	95	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

www.xenco.com

Xenco Quote #

Xenco Job # 539292

Client / Reporting Information

Company Name / Branch: Talon LPE

Company Address: Midland TX

Email: mgilliland@talonlpe.com

Phone No:

Project Contact: Melissa Gilliland

Samplers's Name: Brian Paxton

Project Information

Project Name/Number: Enterprise Salt Draw

Project Location: Eddy Co NM

Invoice To: Accounting

PO Number:

Analytical Information

GRO-DRO

TPH

BTEX

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	None	Field Comments
1	SS-5B		10-26	0930	S	1								X	
2															
3															
4															
5															
6															
7															
8															
9															
10															

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [x] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished By Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		10-26 1610	1	2		2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X

Temp: IR ID:R-8
CF:+ 0.1 4.4
Corrected Temp: 4.5

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless prev

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon/LPE Co.

Date/ Time Received: 10/26/2016 04:10:00 PM

Work Order #: 539292

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.5
#2 *Shipping container in good condition?	**N/A**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer
Jessica Kramer
Date: 10/26/2016

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 10/26/2016

Analytical Report 539507

for

Talon/LPE Co.

Project Manager: Melissa Gilliland

Enterprise Salt Draw

01-NOV-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Table of Contents

01-NOV-16

Project Manager: **Melissa Gilliland**
Talon/LPE Co.
2901 S State Highway 349
Midland, TX 79706

Reference: XENCO Report No(s): **539507**
Enterprise Salt Draw
Project Address: Eddy Co NM

Melissa Gilliland:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 539507. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 539507 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks
Project Manager

Sample Cross Reference 539507

Talon/LPE Co., Midland, TX

Enterprise Salt Draw

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-5C	S	10-31-16 10:00	- 5 ft	539507-001

Version: 1.%

Final 1.000

CASE NARRATIVE

Client Name: Talon/LPE Co.

Project Name: Enterprise Salt Draw

Project ID:
Work Order Number(s): *539507*

Report Date: *01-NOV-16*
Date Received: *10/31/2016*

Sample receipt non conformances and comments:

Brian called 11/01/16 @ 813 to add BTEX

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3003040 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 539507

Talon/LPE Co., Midland, TX

Project Name: Enterprise Salt Draw

Project Id:

Contact: Melissa Gilliland

Project Location: Eddy Co NM

Date Received in Lab: Mon Oct-31-16 03:25 pm

Report Date: 01-NOV-16

Project Manager: Kelsey Brooks

Analysis Requested							
	Lab Id:	539507-001					
	Field Id:	SS-5C					
	Depth:	5 ft					
	Matrix:	SOIL					
	Sampled:	Oct-31-16 10:00					
BTEX by EPA 8021B	***Extracted:***	Oct-31-16 18:00					
	Analyzed:	Nov-01-16 11:24					
	Units/RL:	mg/kg	RL				
Benzene		ND	0.00150				
Toluene		ND	0.00200				
Ethylbenzene		ND	0.00200				
m,p-Xylenes		ND	0.00200				
o-Xylene		ND	0.00299				
Total Xylenes		ND	0.00200				
Total BTEX		ND	0.00150				
TPH By SW8015B Mod	***Extracted:***	Oct-31-16 16:00					
	Analyzed:	Nov-01-16 09:51					
	Units/RL:	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	15.0				
C10-C28 Diesel Range Hydrocarbons		ND	15.0				

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Kelsey Brooks
Project Manager

Final 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539507,

Project ID:

Lab Batch #: 3003034 **Sample:** 539507-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/01/16 09:51

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	99.8	120	70-135	
o-Terphenyl	63.5	49.9	127	70-135	

Lab Batch #: 3003040 **Sample:** 539507-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/01/16 11:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 3003040 **Sample:** 715592-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/31/16 16:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 3003034 **Sample:** 715582-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/31/16 23:28

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	61.8	50.0	124	70-135	

Lab Batch #: 3003040 **Sample:** 715592-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/31/16 14:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539507,

Project ID:

Lab Batch #: 3003034 **Sample:** 715582-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/31/16 23:53

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	63.3	50.0	127	70-135	

Lab Batch #: 3003040 **Sample:** 715592-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 10/31/16 14:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 3003034 **Sample:** 715582-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/01/16 00:17

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	63.7	50.0	127	70-135	

Lab Batch #: 3003040 **Sample:** 539437-013 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/31/16 15:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 3003034 **Sample:** 539437-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/01/16 01:06

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	99.9	126	70-135	
o-Terphenyl	62.0	50.0	124	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: Enterprise Salt Draw

Work Orders : 539507,

Project ID:

Lab Batch #: 3003040 **Sample:** 539437-013 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 10/31/16 15:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

Lab Batch #: 3003034 **Sample:** 539437-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/01/16 01:31

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	99.7	124	70-135	
o-Terphenyl	64.0	49.9	128	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Version: 1.%

BS / BSD Recoveries

Project Name: Enterprise Salt Draw

Work Order #: 539507 **Project ID:**

Analyst: PJB **Date Prepared:** 11/01/2016 **Date Analyzed:** 10/31/2016

Lab Batch ID: 3003040 **Sample:** 715592-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.102	102	0.100	0.0897	90	13	70-130	35	
Toluene	<0.00200	0.100	0.102	102	0.100	0.0882	88	15	70-130	35	
Ethylbenzene	<0.00200	0.100	0.106	106	0.100	0.0934	93	13	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.217	109	0.200	0.191	96	13	70-135	35	
o-Xylene	<0.00300	0.100	0.107	107	0.100	0.0944	94	13	71-133	35	

Analyst: ARM **Date Prepared:** 10/31/2016 **Date Analyzed:** 10/31/2016

Lab Batch ID: 3003034 **Sample:** 715582-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	951	95	1000	983	98	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	969	97	1000	991	99	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: Enterprise Salt Draw

Work Order # : 539507 **Project ID:**

Lab Batch ID: 3003040 **QC- Sample ID:** 539437-013 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/31/2016 **Date Prepared:** 10/31/2016 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.0998	0.0852	85	0.0994	0.0930	94	9	70-130	35	
Toluene	<0.00200	0.0998	0.0845	85	0.0994	0.0956	96	12	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0883	88	0.0994	0.0984	99	11	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.181	91	0.199	0.207	104	13	70-135	35	
o-Xylene	<0.00299	0.0998	0.0888	89	0.0994	0.106	107	18	71-133	35	

Lab Batch ID: 3003034 **QC- Sample ID:** 539437-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/01/2016 **Date Prepared:** 10/31/2016 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	962	96	997	996	100	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	999	980	98	997	1020	102	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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Service Center - San Antonio, Texas (210-509-3334) | www.xenco.com

Xenco Quote # | Xenco Job # 539507

Client / Reporting Information

Company Name / Branch: Talon LPE

Company Address: Midland TX

Email: mgilliland@talonlpe.com | Phone No:

Project Contact: Melissa Gilliland

Samplers's Name: Brian Payton

Project Information

Project Name/Number: Enterprise Salt Draw

Project Location: Eddy Co NM

Invoice To: Accounting

PO Number:

Analytical Information

GRO DRO TPH

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	SS-5C	5'	10-31	1000	S	1								X	X
2															
3															
4															
5															
6															
7															
8															
9															
10															

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [x] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		10-31 1525	1	2		2
	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3			3	4		4
	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cool / Thermo Corr. Factor
5			5			

Temp: IR ID:R-8
CF:+ 0.15.2
Corrected Temp: 5.3

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously n

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon/LPE Co.

Date/ Time Received: 10/31/2016 03:25:00 PM

Work Order #: 539507

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.3
#2 *Shipping container in good condition?	**N/A**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seal present on shipping container/ cooler?	**N/A**
#5 *Custody Seals intact on shipping container/ cooler?	**N/A**
#6 Custody Seals intact on sample bottles?	**N/A**
#7 *Custody Seals Signed and dated?	**N/A**
#8 *Chain of Custody present?	**Yes**
#9 Sample instructions complete on Chain of Custody?	**Yes**
#10 Any missing/extra samples?	**No**
#11 Chain of Custody signed when relinquished/ received?	**Yes**
#12 Chain of Custody agrees with sample label(s)?	**Yes**
#13 Container label(s) legible and intact?	**Yes**
#14 Sample matrix/ properties agree with Chain of Custody?	**Yes**
#15 Samples in proper container/ bottle?	**Yes**
#16 Samples properly preserved?	**Yes**
#17 Sample container(s) intact?	**Yes**
#18 Sufficient sample amount for indicated test(s)?	**Yes**
#19 All samples received within hold time?	**Yes**
#20 Subcontract of sample(s)?	**N/A**
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	**N/A**
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer
Jessica Kramer
Date: 10/31/2016

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 11/01/2016

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Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS

Action 319301

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 319301
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1629934570**
Incident Name	**NAB1629934570 PIPELINE ROW, 1002 @ 0**
Incident Type	**Natural Gas Release**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fAB1629934423] Pipeline ROW, 1002**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PIPELINE ROW, 1002
Date Release Discovered	10/14/2016
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Pipeline (Any) | Produced Water | Released: 1 BBL | Recovered: 0 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Equipment Failure | Pipeline (Any) | [OBSOLETE] Natural Gas (Methane) | Released: 83 MCF | Recovered: 0 MCF | Lost: 83 MCF.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 319301
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 03/01/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 319301
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 200 and 300 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	47
GRO+DRO (EPA SW-846 Method 8015M)	13
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	11/28/2023
On what date will (or did) the final sampling or liner inspection occur	11/28/2023
On what date will (or was) the remediation complete(d)	02/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	3000
What is the estimated volume (in cubic yards) that will be reclaimed	35
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	35
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 319301
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 03/01/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 319301
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 319301
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**313012**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/13/2024**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**250**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3000
What was the total volume (cubic yards) remediated	35
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3000
What was the total volume (in cubic yards) reclaimed	35
Summarize any additional remediation activities not included by answers (above)	Still require the final photograph after backfill activities.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 03/01/2024

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.
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QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	3000
What was the total volume of replacement material (in cubic yards) for this site	35
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/01/2045
Summarize any additional reclamation activities not included by answers (above)	None.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
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.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 03/01/2024

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QUESTIONS (continued)

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	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 319301

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
amaxwell	Reclamation approved.	3/1/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/1/2024
amaxwell	OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/1/2024