



DEFERRAL REPORT

Property:

South Eddy Cryo

**Unit H, S01, T25S, R30E
32.160412° N, 103.82791° W
Eddy County, New Mexico
New Mexico EMNRD OCD Incident ID: nAPP2233445626**

February 12, 2024
Ensolum Project No. 03B1226303

Prepared for:

**Enterprise Field Services LLC
PO Box 4324
Houston, Texas 77210**

Attn: Robert Dunaway

Prepared by:


Kelly Lowery
Project Manager

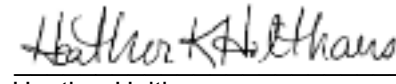

Heather Holthaus
Senior Project Manager



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Ensolum Project No. 03B1226303

1.0 INTRODUCTION**1.1 Site Description & Background**

Operator:	Enterprise Field Services LLC (Enterprise)
Site Name:	South Eddy Cryo
Location:	South Eddy Cryo Plant Unit H, Section 01, Township 25 South, Range 30 East Eddy County, New Mexico
Property:	Private (Enterprise)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 30, 2022, a sump overflowed causing 8 barrels (bbls) of lean amine to spill onto the ground surface at the South Eddy Cryo Plant (Site). Approximately 4 bbls of lean amine were recovered during initial response actions.

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 soil to be in compliance with 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. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.



- The Site is not 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 Water Rights Reporting System database there are no private, domestic freshwater wells used by less than five 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; however, there is one exploratory water well with OSE record number C03891, reportedly utilized for monitoring purposes. The depth to water in this well was reported to be 429 feet below ground surface (bgs).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland; however, a freshwater emergent wetland is located on the southeast corner of the facility, located approximately 300 feet east-southeast of the release area.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (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 Bureau of Land Management (BLM), the Site is located within a relatively stable area, also referred to as low karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soil 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
	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

On November 30, 2022, a sump overflowed causing 8 bbls of lean amine to spill onto the ground surface at the Site. Approximately 4 bbls of lean amine were recovered during initial response actions.

An initial Site visit was conducted by Souder, Miller & Associates (SMA) on January 13, 2023, following completion of hydro-excavation activities of the affected surface material to depths ranging from 0.5 feet to 0.75 feet bgs, where hard caliche rock prevented further excavation.

Excavated soil was removed from the Site and disposed of at Lea Land LLC in Hobbs, New Mexico, a New Mexico EMNRD OCD-permitted disposal facility. The excavation area was subsequently backfilled with clean fill material.

SMA prepared a *Remediation Closure Report with Deferral Request*, dated February 27, 2023, 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 A**).

4.0 SOIL SAMPLING PROGRAM

On January 13, 2023, SMA collected a total of 25 composite soil samples (CS01 through CS25) from the excavation area. The samples were collected at a depth of 0.5-0.75 feet bgs. SMA prepared a *Remediation Closure Report with Deferral Request*, dated February 27, 2023, for submittal to the New Mexico EMNRD OCD; the recommendations from this report are as follows:

"As demonstrated in Table 3, all excavation confirmation samples meet NMOCD criteria for delineation at a site with groundwater greater than 100 feet bgs. However, due to the proximity of the NMOSE registered water well, the NMOCD Closure Criteria for the release is the depth to groundwater of less than 50 feet per Table I of 19.15.29.12 NMAC. Table 3 also demonstrates that certain areas of the remedial excavation and areas immediately adjacent or under facility do not yet meet these Closure Criteria. As illustrated on Figure 4, a request for deferral of remediation is requested for the area indicated by hatching measuring approximately 4,757 square feet.

Excavated soils were removed and replaced with clean backfill material to return the surface to previous contours. All excavated soil was transported and disposed of at Lea Land LLC, Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests the deferral of the remediation of the residual impacted material at the South Eddy Cryo Plant Amine Release."

A copy of the SMA letter report, *Remediation Closure Report with Deferral Request*, dated February 27, 2023, detailing the remediation and sampling activities is located in **Appendix B**.

Based on correspondence received from the New Mexico EMNRD OCD on July 14, 2023, the initial closure report with deferral request for the Site was denied. According to the New Mexico EMNRD OCD,

"The Deferral Request is Denied. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. As much contaminated soil as possible should be removed safely with alternative methods (shovel, hydrovac, etc.). Only sample points that could cause a major facility deconstruction will be deferred. The only remediation that should remain are the sample points that are being requested for deferral. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed. A background sample will need to be conducted to see if Sulfates are in the soil (Method 300). The impacted area needs to be tested for sulfates also. (Method 8270) will need to be ran to verify the presence/absence of "Semi Volatiles." The landfill needs to know if the contaminated material contains "Semi Volatiles". Also, a full list for TPH will need to be ran (Method 8015)."

On August 22 and September 6, 2023, Ensolum arrived on-Site and collected 25 composite confirmation soil samples from the 25 locations that had previously been sampled (CS01 through CS25). Due to the previous excavation and subsequent backfill with clean material to 0.75 feet bgs and the presence of the hard caliche rock beneath the Site, Ensolum utilized a rock bar to obtain soils from a depth of approximately

1.5 feet bgs at each location. In addition, Ensolum collected a lateral delineation discrete soil sample from four locations (North, East, South and West), within approximately 2 feet outside of the impacted area, at a depth of 0.25 feet bgs. One background soil sample (BG-1) was also collected at a depth of 1.5 feet bgs, no closer than 50 feet but no greater than 100 feet from the lateral and horizontal extents of the impacted area.

The composite confirmation and lateral delineation 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 in Albuquerque, New Mexico under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite confirmation and lateral delineation discrete soil samples were analyzed for chloride and sulfate following United States Environmental Protection Agency (EPA) Method 300.0, and/or total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil/lube oil range organics (MRO) following EPA SW-846 Method 8015M/D, and/or benzene, toluene, ethylbenzene and total xylenes (BTEX) following EPA SW-846 Method 8021B.

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

6.0 DATA EVALUATION

Ensolum compared the chloride, BTEX, and/or TPH-GRO/DRO/MRO concentrations and/or laboratory sample detection limits (SDLs) associated with the final composite confirmation and lateral delineation soil samples (CS01 through CS25 and North, East, South and West, respectively) for soil remaining in place to the applicable New Mexico EMNRD OCD closure criteria.

The New Mexico EMNRD OCD does not have closure criteria for sulfate; therefore, Ensolum utilized the detected concentrations of sulfate in the confirmation samples collected outside of the impacted area (BG-1, North, East, South and West) to calculate the 95th Upper Tolerance Limit (UTL) for the Site. Ensolum compared the sulfate concentrations and/or laboratory SDLs associated with the composite confirmation soil samples to the calculated site-specific UTL.

- Laboratory analytical results indicated benzene concentrations for soil remaining in place at a depth of 1.5 feet bgs do not exceed the laboratory SDLs or the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicates total BTEX concentrations for soil remaining in place at a depth of 1.5 feet bgs do not exceed the laboratory SDLs or the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- Laboratory analytical results indicated combined TPHGRO/DRO/MRO concentrations for soil remaining in place at a depth of 1.5 feet bgs do not exceed the laboratory SDLs and/or the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- Laboratory analytical results indicated chloride concentrations for soil remaining in place at a depth of 1.5 feet bgs do not exceed the New Mexico EMNRD OCD closure criteria of 600 mg/kg.
- Laboratory analytical results indicate sulfate concentrations for soils remaining in place at a depth of 1.5 feet bgs do not exceed the calculated site-specific UTL of 6,992 mg/kg.

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

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, no further excavation was necessary. Per Enterprise's safety procedures regarding the restriction to utilize heavy equipment/machinery inside a facility due to risks to human health and safety which prohibits the further excavation of soil remaining in place, a deferral request for remediation is required in these areas, comprising of approximately 8,560 cubic feet, as indicated in orange on **Figure 3 (Appendix A)**.

8.0 FINDINGS AND RECOMMENDATION

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to be in compliance with the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- On January 13, 2023, SMA collected a total of 25 composite soil samples (CS01 through CS25) from the excavation area. The samples were collected at depths ranging from 0.5 feet to 0.75 feet bgs. Based on the results of the soil sampling, a request for deferral of remediation was requested for an area measuring approximately 4,757 square feet.
- Based on correspondence received from the New Mexico EMNRD OCD on July 14, 2023, the initial Closure Report with Deferral Request for Site was denied. *"The Deferral Request is Denied. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. As much contaminated soil as possible should be removed safely with alternative methods (shovel, hydrovac, etc.). Only sample points that could cause a major facility deconstruction will be deferred. The only remediation that should remain are the sample points that are being requested for deferral. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed. A background sample will need to be conducted to see if Sulfates are in the soil (Method 300). The impacted area needs to be tested for sulfates also. (Method 8270) will need to be ran to verify the presence/absence of "Semi Volatiles." The landfill needs to know if the contaminated material contains "Semi Volatiles". Also, a full list for TPH will need to be ran (Method 8015)."*
- The New Mexico EMNRD OCD comment above concerning the need to test for semi volatiles for landfill use is acknowledged, however, if deferral is approved, the removal of soils for off-Site disposal at an approved landfill facility will not be warranted.
- On August 22 and September 6, 2023, Ensolum arrived on-Site and collected 25 composite soil samples from the original 25 locations that had previously been sampled (CS01 through CS25). Due to the previous excavation and subsequent backfill with clean material from 0 - 0.75 feet bgs and the presence of the hard caliche rock beneath the Site, Ensolum utilized a rock bar to obtain soils from a depth of approximately 1.5 feet bgs at each location. In addition, Ensolum collected four delineation soil samples (North, East, South and West), from four locations within approximately 2 feet outside of the impacted area, at a depth of 0.25 feet bgs. One background soil sample was also collected (BG-1) at a depth of 1.5 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 the laboratory analytical data of the final composite confirmation soil samples, no additional excavation is required.

Based on the final soil analytical results, soils remaining in place at a depth of 1.5 feet bgs do not exhibit benzene, BTEX, TPH GRO/DRO/MRO, or chloride concentrations exceeding the applicable New Mexico EMNRD OCD closure criteria, or sulfate concentrations above the calculated UTL for the Site.

- Due to the location of the release relative to pertinent on-Site equipment and refusal consisting of hard caliche encountered at 0.75 feet bgs, with prior attempts to hydrovac to deeper depths proving unsuccessful, confirmation samples were unable to be collected immediately adjacent to or beneath the equipment without deconstruction at the facility. Per Enterprise's safety procedures

regarding the restriction to utilize heavy equipment/machinery inside a facility due to risks to human health and safety which prohibits the further excavation of soil remaining in place, a deferral request for remediation is required in these areas, comprising of approximately 8,560 cubic feet, as indicated in orange on **Figure 3 (Appendix A)**.

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.

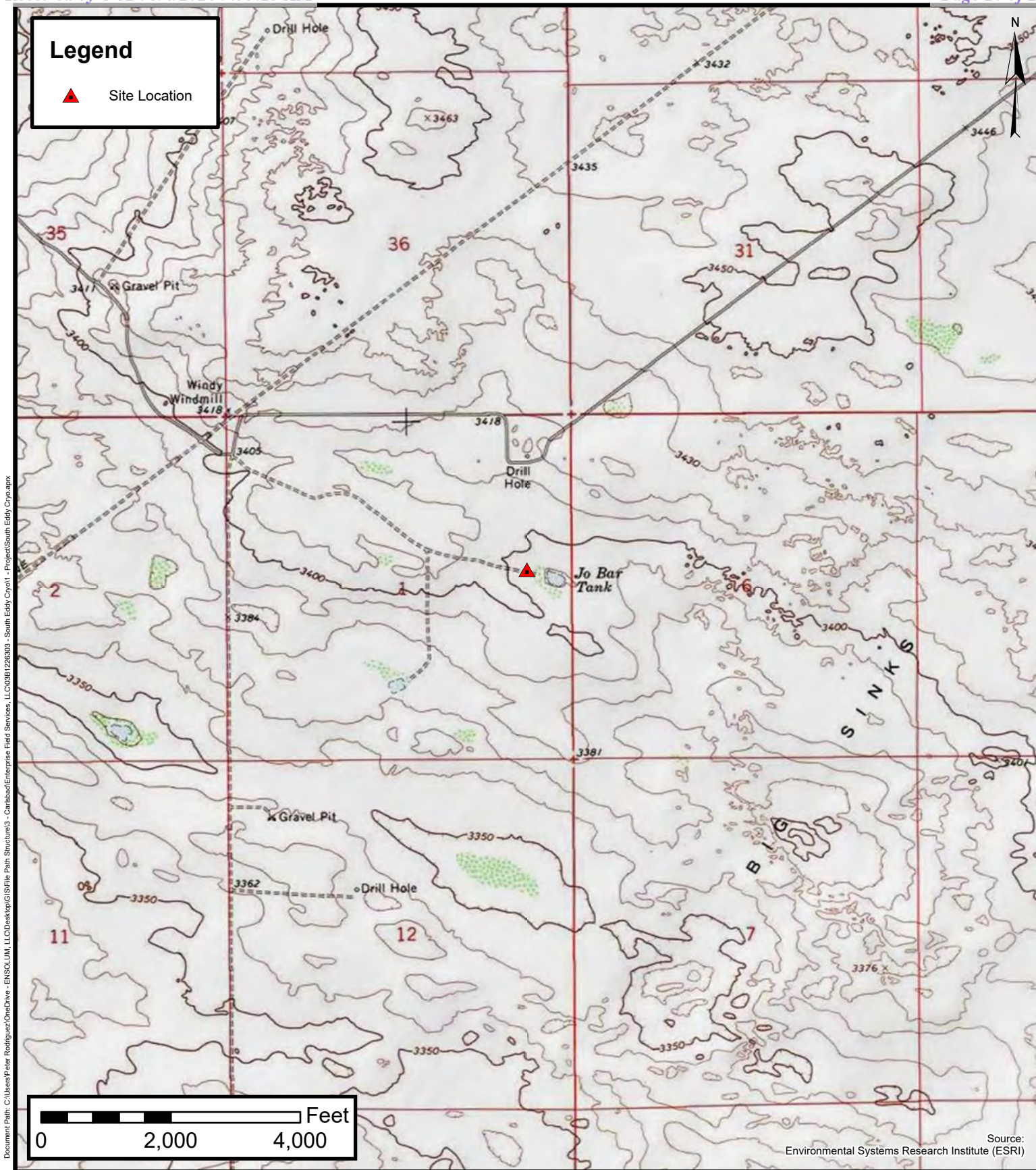
9.3 Reliance

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.



APPENDIX A

Figures



Topographic Map

ENTERPRISE FIELD SERVICES, LLC

SOUTH EDDY CRYO

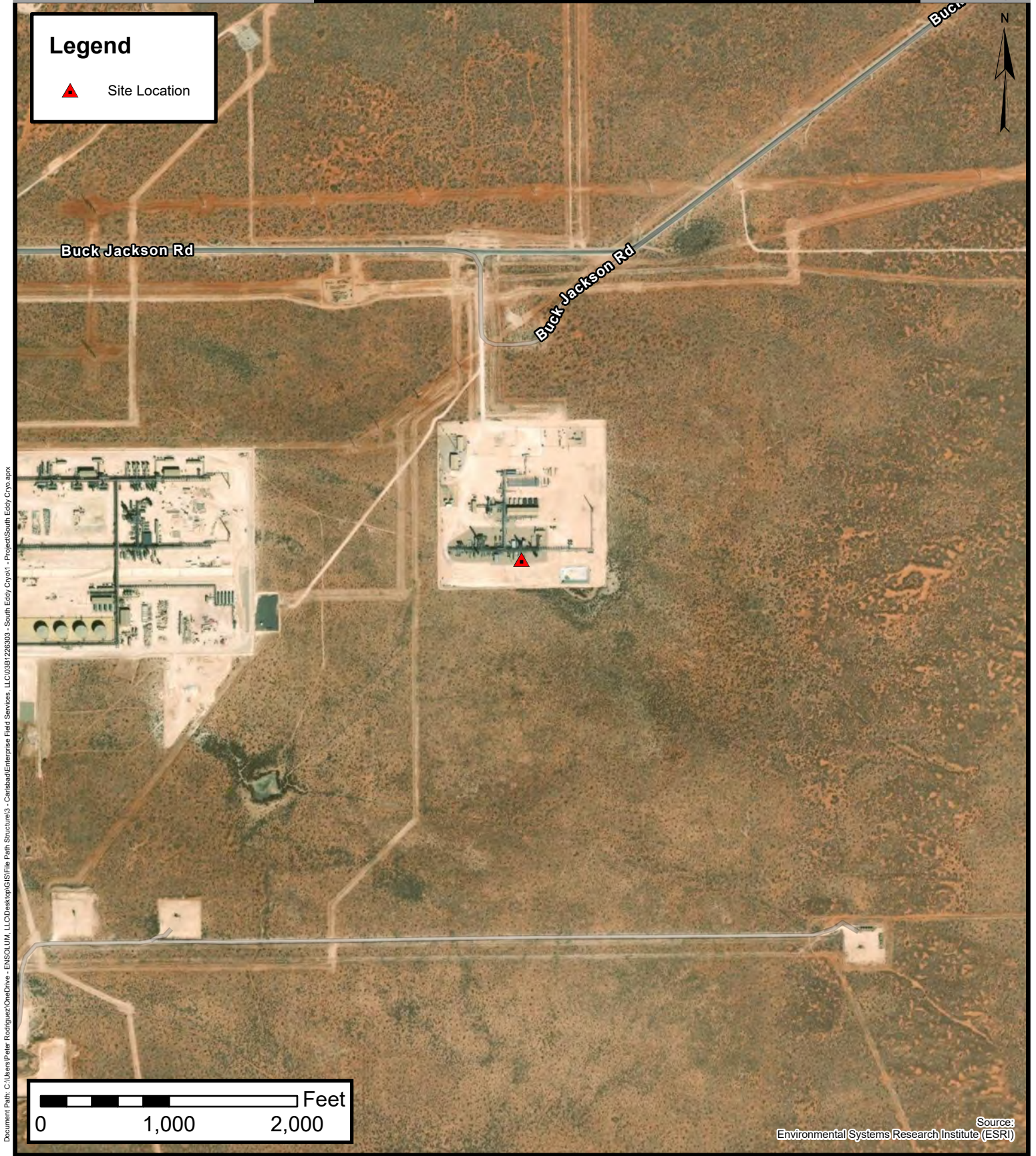
Eddy County, New Mexico

32.160412° N, 103.82791° W

Project Number: 03B1226303

FIGURE

1



Site Vicinity Map

ENTERPRISE FIELD SERVICES, LLC

SOUTH EDDY CRYO

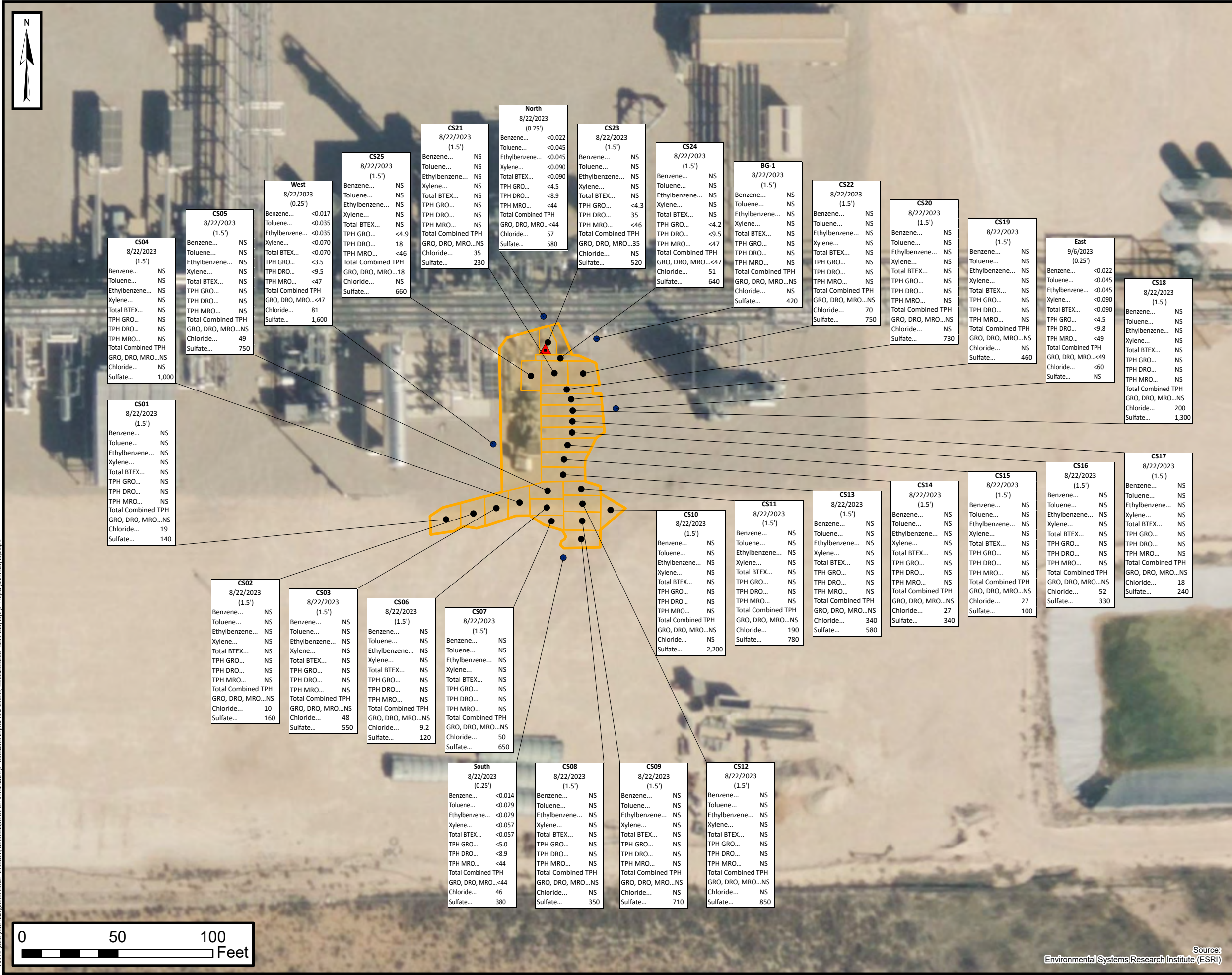
Eddy County, New Mexico

32.160412° N, 103.82791° W

Project Number: 03B1226303

FIGURE

2



LEGEND

- Release Point
- Composite Soil Sample Location
- Confirmation Delineation Soil Sample Location
- 200 Square Foot Boundary
- Deferred Release Extent (0 - 1.5' BGS)

Notes:
1. BGS - Below Ground Surface
2. Results are in mg/kg
3. NS - Not Sampled
4. < - Sample Results Below Laboratory Reporting Limits

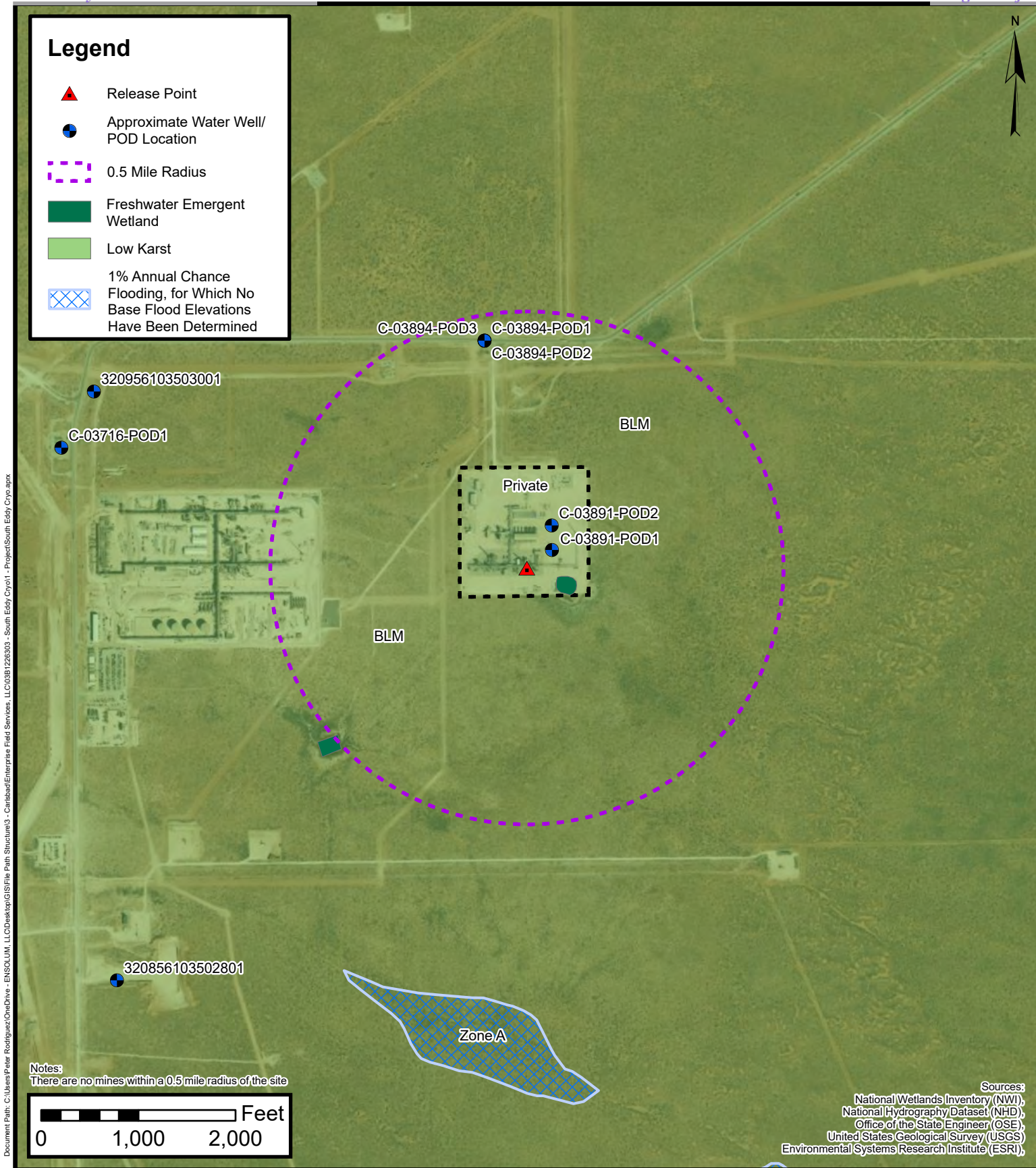


Site Map

ENTERPRISE FIELD SERVICES, LLC
SOUTH EDDY CRYO
Eddy County, New Mexico
32.160412° N, 103.82791° W

Figure 3

Project Number: 03B1226303



Closure Criteria Map

ENTERPRISE FIELD SERVICES, LLC

SOUTH EDDY CRYO

Eddy County, New Mexico

32.160412° N, 103.82791° W

Project Number: 03B1226303

FIGURE

4

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



APPENDIX B

Supporting Documentation

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, August 18, 2023 11:54 AM
To: Kelly Lowery
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] South Eddy Cryo (Incident ID #nAPP2233445626)

[**EXTERNAL EMAIL**]

Hi Kelly,

The OCD has received your notification. Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion 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: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, August 18, 2023 10:34 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] South Eddy Cryo (Incident ID #nAPP2233445626)



CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the South Eddy Cryo (Incident ID #nAPP2233445626) on Tuesday, August 22nd. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you



Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC
in f  

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, September 7, 2023 8:24 AM
To: Kelly Lowery
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Long, Thomas
Subject: RE: [EXTERNAL] South Eddy Cryo (nAPP2233445626)

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Hi Kelly,

I apologize in the delay with my response as I was out of the office until today. 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: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, September 1, 2023 7:04 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Long, Thomas <tjlong@eprod.com>
Subject: RE: [EXTERNAL] South Eddy Cryo (nAPP2233445626)

Good evening,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the South Eddy Cryo (Incident ID# nAPP2233445626) on Wednesday, September 6th. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you



Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC
in f

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, September 1, 2023 5:20 PM
To: Kelly Lowery <klowery@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] South Eddy Cryo (nAPP2233445626)

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[**EXTERNAL EMAIL**]

Hi Kelly,

This request for a variance to the two business days' notice is denied per 19.15.29.12(D)1(a) NMAC because Ensolum on behalf of Enterprise Field Services, LLC failed to provide good cause.

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: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, September 1, 2023 12:09 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] South Eddy Cryo (nAPP2233445626)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

This email is a notification and a variance request. Ensolum, LLC, on behalf of Enterprise Field Services, LLC, is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Ensolum would like to collect soil samples for laboratory analysis Friday, September 01, 2023 at the South Eddy Cryo (nAPP2233445626) Site. Please acknowledge acceptance of this variance request. If you have any questions, please call or email. The samples may be used for closure, providing that they meet applicable closure limits.

Thank you



Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC
in f

OSE POD Location Map - 0.5 mile



10/4/2023, 5:07:20 PM

GIS WATERS PODs

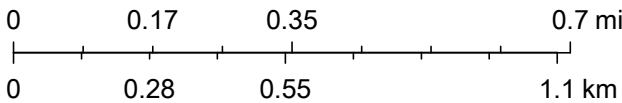
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- Pending

OSE District Boundary

New Mexico State Trust Lands

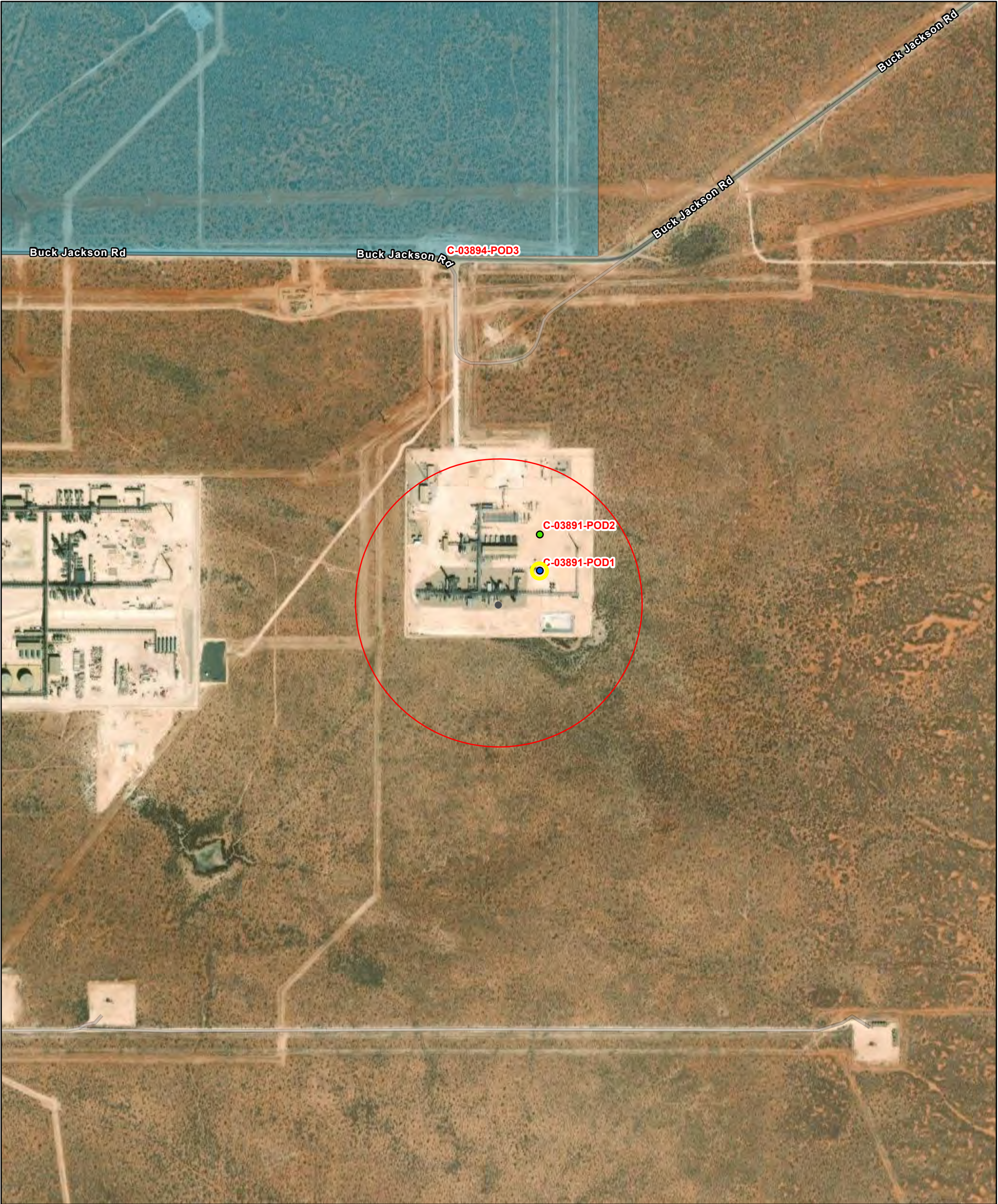
- Both Estates
- SiteBoundaries

1:18,056



U.S. Department of Energy Office of Legacy Management, Maxar, Esri Community Maps Contributors, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US

OSE POD Location Map



10/4/2023, 5:06:03 PM

GIS WATERS PODs

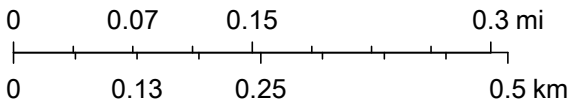
- Active
- Pending

OSE District Boundary

New Mexico State Trust Lands

- Both Estates
- SiteBoundaries

1:9,028



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New Mexico Office of the State Engineer
Water Right Summary



WR File Number: C 03891

Subbasin: CUB

Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -


Total Diversion: 0

Cause/Case: -



Owner: ENTERPRISE FIELD SERVICES LLC

Contact: ED WATTENBARGER

Documents on File

			Status			From/			
Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
 get images	571228	EXPL	2015-07-24	PMT	LOG	C 03891 POD1	T	0	0

Current Points of Diversion

POD Number	Well Tag	Source	Q							(NAD83 UTM in meters)			Other Location Desc
			64	Q16	Q4	Sec	Tw	Rng	X	Y			
C 03891 POD1		Shallow	4	4	2	01	25S	30E	610608	3558890		WELL 1	
C 03891 POD2			2	4	2	01	25S	30E	610607	3558967		WELL 2	

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

7/24/23 2:04 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03891 POD1	4	4	2	01	25S	30E	610608	3558890

x

Driller License:	1723	Driller Company:	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name:				
Drill Start Date:	11/10/2015	Drill Finish Date:	11/14/2015	Plug Date:
Log File Date:	12/04/2015	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 33 GPM
Casing Size:	6.13	Depth Well:	635 feet	Depth Water: 429 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	420	450	Sandstone/Gravel/Conglomerate
	450	460	Sandstone/Gravel/Conglomerate
	460	490	Sandstone/Gravel/Conglomerate
	490	500	Sandstone/Gravel/Conglomerate
	500	530	Sandstone/Gravel/Conglomerate
	530	635	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	460	635

x

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


7/24/23 2:14 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

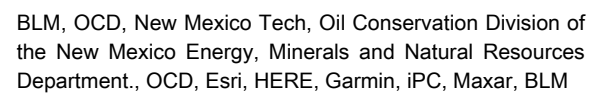
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03891 POD2	2	4	2	01	25S	30E	610607	3558967 
<hr/>									
Driller License:		Driller Company:							
Driller Name:									
Drill Start Date:			Drill Finish Date:			Plug Date:			
Log File Date:			PCW Rev Date:			Source:			
Pump Type:			Pipe Discharge Size:			Estimated Yield:			
Casing Size:			Depth Well:			Depth Water:			
<hr/>									

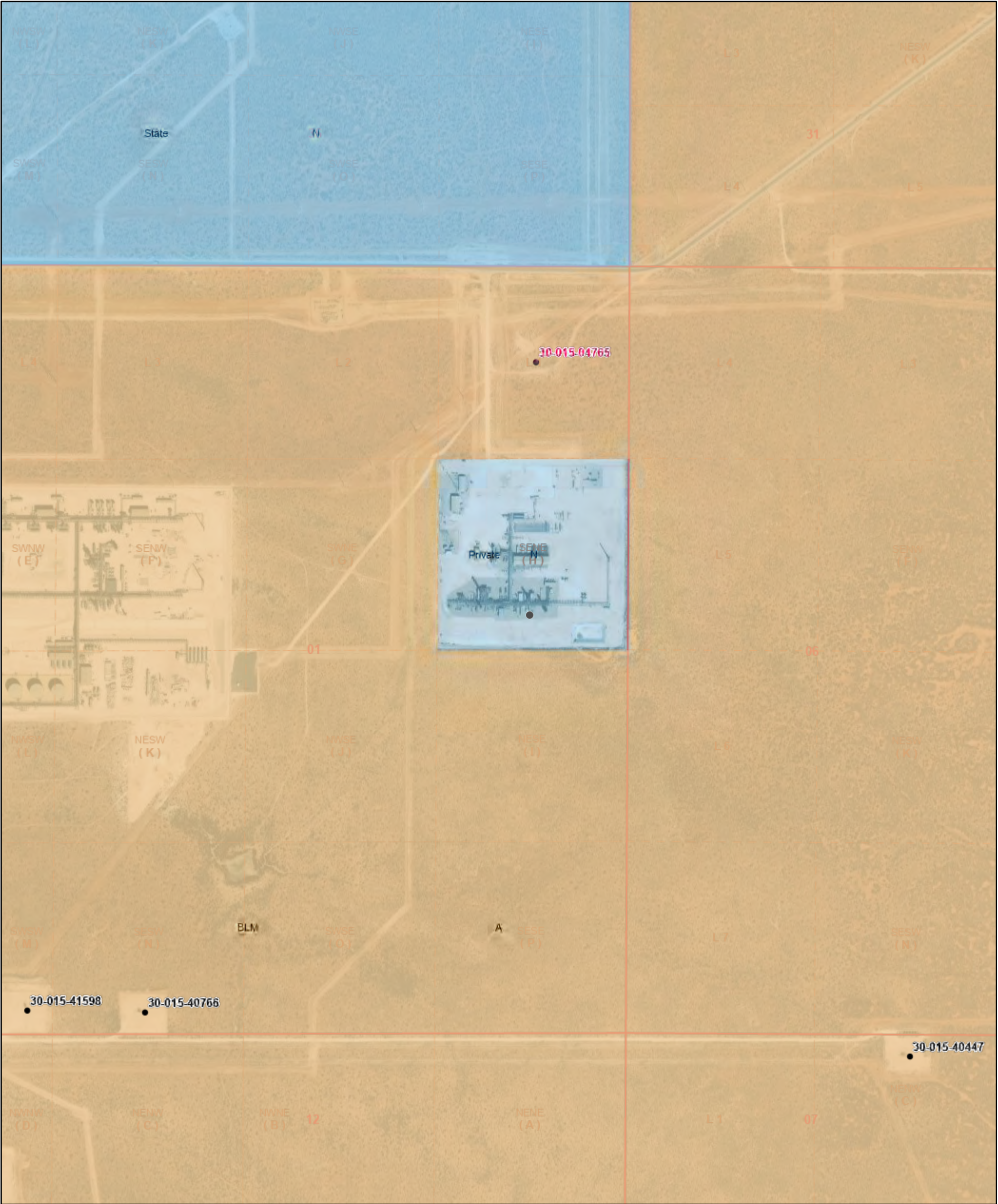
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/24/23 2:13 PM

POINT OF DIVERSION SUMMARY



Mineral and Surface Ownership



10/4/2023, 5:16:32 PM

Wells - Large Scale

- Oil, Active
- Oil, Plugged

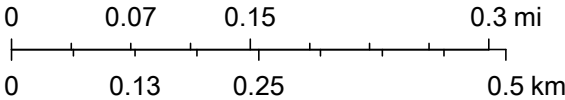
Mineral Ownership

- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.
- PLSS Second Division
- PLSS First Division

Land Ownership

- BLM
- P
- S

1:9,028



U.S. BLM, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE, Garmin, IPC, Maxar, BLM

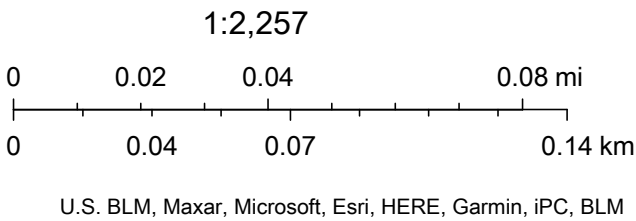
Active Mines in New Mexico

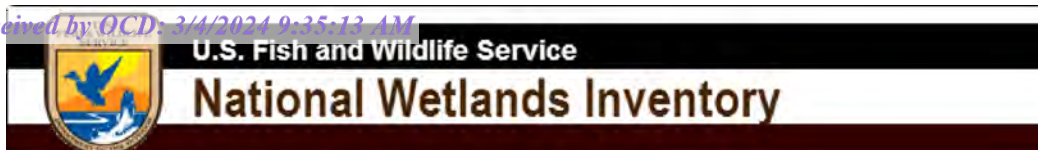


10/4/2023, 5:17:36 PM

Land Ownership

- BLM
- P
- PLSS Second Division
- PLSS First Division





NWI Map



October 4, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

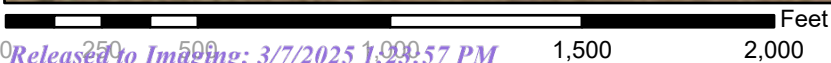
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



103°49'59"W 32°9'53"N



1:6,000

103°49'22"W 32°9'22"N

Released to Imaging: 3/7/2025 1:29:57 PM

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 Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 10/4/2023 at 6:19 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.

Kelly Lowery

From: Dunaway, Robert <rhodunaway@eprod.com>
Sent: Friday, July 14, 2023 9:45 AM
To: Kelly Lowery
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 191227

[**EXTERNAL EMAIL**]

Aaaand it's rejected. Let's work on this.

This is the earlier Amine spill in November 22 at South Eddy.

**Robert Dunaway**

Senior Environmental Engineer

W: 575-628-6802

C: 361-815-0990

rhodunaway@eprod.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, July 14, 2023 8:43 AM
To: Dunaway, Robert <rhodunaway@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 191227

[Use caution with links/attachments]

To whom it may concern (c/o Robert Dunaway 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#) nAPP2233445626, for the following reasons:

- **The Deferral Request is Denied.** The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. As much contaminated soil as possible should be removed safely with alternative methods (shovel, hydrovac, etc.). Only sample points that could cause a major facility deconstruction will be deferred. The only remediation that should remain are the sample points that are being requested for deferral. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed. A background sample will need to be conducted to see if Sulfates are in the soil (Method 300). The impacted area needs to be tested for sulfates also. (Method 8270) will need to be ran to verify the presence/absence of "Semi Volatiles." The landfill needs to know if the contaminated material contains "Semi Volatiles". Also, a full list for TPH will need to be ran (Method 8015).

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 191227. 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,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

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

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



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-8801

February 27, 2023

#5E31002-BG28

NMOCD District 2
811 S. First St.
Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report with Deferral Request for the South Eddy Cryo Plant Amine Release (nAPP2233445626), Eddy County, New Mexico

1.0 Executive Summary

On behalf of Enterprise Field Services LLC (Enterprise), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report with Deferral Request that describes the remediation of a lean amine release at the South Eddy Cryo Plant. The release site is located in Unit H, Section 1, Township 25S, Range 30E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

This report demonstrates that the release area has been remediated to meet the standards of Table I of 19.15.29.12 New Mexico Administrative Code (NMAC) except for the requested deferral area which is immediately under or adjacent to facility equipment.

SMA recommends no further action at this time and requests a deferral of final remediation of the residual impacted material for Incident Number nAPP2233445626.

Table 1: Release Information and Closure Criteria			
Name	South Eddy Cryo Plant Amine Release	Company	Enterprise Field Services LLC
Incident Number	nAPP2233445626	Location	32.160412, -103.82791
Date Release Discovered	November 30, 2022	Land Status	Private
Source of Release	Overflow of sump		
Nature and Volume of Release	8.0 bbl Amine	Volume Recovered	4 bbl Amine
NMOCD Closure Criteria	<50 feet per Table 1 of 19.15.29.12 NMAC		
SMA Response Dates	January 13, 2023		

2.0 Background

On November 30, 2022, an amine release was discovered at the South Eddy Cryo Plant. Initial response activities were conducted by Enterprise, and included source elimination and site security, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. A copy of the initial C-141 form is included in Appendix A.

South Eddy Cryo Plant Amine Release Closure Report February 27, 2023

Page 2 of 4

3.0 Site Information and Closure Criteria

The South Eddy Cryo Plant is located approximately 15 miles southeast of Malaga, New Mexico on privately-owned land at an elevation of approximately 3,405 feet above mean sea level (amsl).

Depth to Groundwater and Wellhead Protection Area

A search of the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System reported five wells within a ½-mile of the site. The well record associated with NMOSE registered well C-03891 reports a static water level of 429 feet below grade surface (bgs) and is located approximately 270 feet northeast of the release location. Water well documentation is included in Appendix B and registered wells are in the vicinity shown in Figure 1.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is a small playa lake or stockpond located approximately 2,540 feet to the southwest.

Closure Criteria

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC due to the presence of the well.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

4.0 Release Characterization and Remediation Activities

On January 13, 2023, following remedial excavation activities, SMA personnel performed excavation confirmation sampling. Impacted surface material was excavated by hydrovac to depths ranging from 0.5 to 0.75 feet bgs where hard caliche rock prevented further excavation.

Twenty-Five (25) composite confirmation samples were collected from the excavation for laboratory analysis for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Excavation samples were composed of 5-point composites collected every 200 square feet or less in accordance with the sampling protocol included in Appendix C.

Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. Field notes are included in Appendix D.

Copies of confirmation sampling notifications are included in Appendix A. Excavation extents and closure confirmation sample locations are depicted on Figure 3. A photo log is included in Appendix D. Confirmation laboratory results are summarized in Table 3. Laboratory reports are included in Appendix E.

5.0 Recommendations

As demonstrated in Table 3, all excavation confirmation samples meet NMOCD criteria for delineation at a site with groundwater greater than 100 feet bgs. However, due to the proximity of the NMOSE registered water well, the NMOCD Closure Criteria for the release is the depth to groundwater of less than 50 feet per Table I of

South Eddy Cryo Plant Amine Release Closure Report
February 27, 2023

Page 3 of 4

19.15.29.12 NMAC. Table 3 also demonstrates that certain areas of the remedial excavation and areas immediately adjacent or under facility do not yet meet these Closure Criteria. As illustrated on Figure 4, a request for deferral of remediation is requested for the area indicated by hatching measuring approximately 4,757 square feet.

Excavated soils were removed and replaced with clean backfill material to return the surface to previous contours. All excavated soil was transported and disposed of at Lea Land LLC, Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests the deferral of the remediation of the residual impacted material at the South Eddy Cryo Plant Amine Release.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Heather Woods at (505) 716-2787.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Sarahmay Schlea
Staff Scientist I



Heather M. Woods, P.G.
Project Geoscientist

South Eddy Cryo Plant Amine Release Closure Report
February 27, 2023

Page 4 of 4

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 2/17/2023

USGS National Water Information System: Web Interface online water well database
https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS&format=html; accessed 2/17/2023

ATTACHMENTS:

Figures:

Figure 1: Topographic Site Map
Figure 2: Aerial Site Map
Figure 3: Site and Sample Location Map

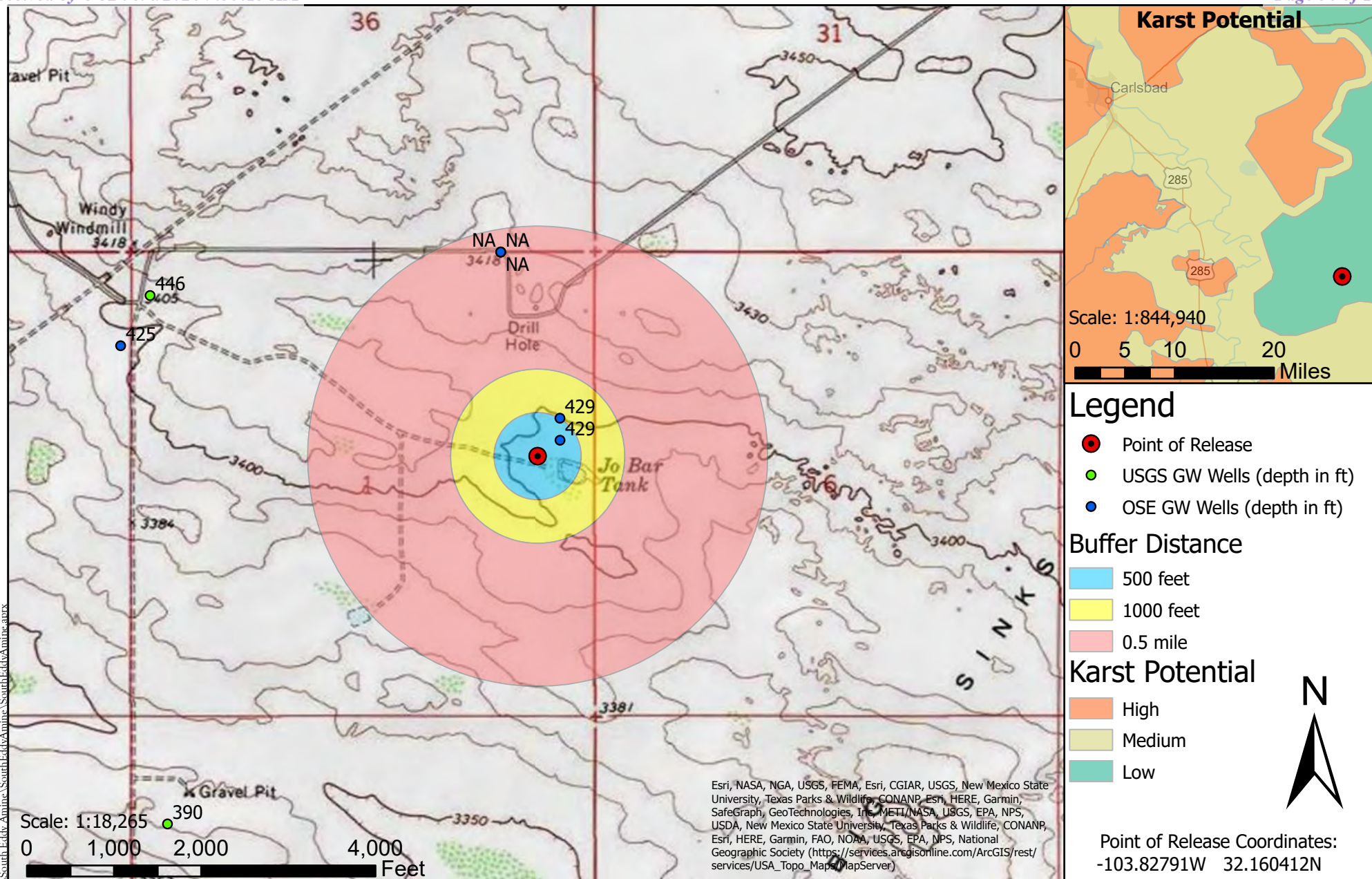
Tables:

Table 2: NMOCD Closure Criteria
Table 3: Summary of Laboratory Analytical Results

Appendices:

Appendix A: Form C-141 and Correspondence
Appendix B: Water Well Data
Appendix C: Sampling Protocol
Appendix D: Field Notes and Photo Log
Appendix E: Laboratory Analytical Reports

FIGURES



Topographic Site Map

South Eddy Cryo Plant - Enterprise Field Services, LLC

UL: H S: 1 T: 25S R: 30E, Eddy County, New Mexico

Figure 1

Revisions

By: _____ Date: _____ Descr: _____

By: _____ Date: _____ Descr: _____

Drawn Sarahmay Schlea

Date 2/8/2023

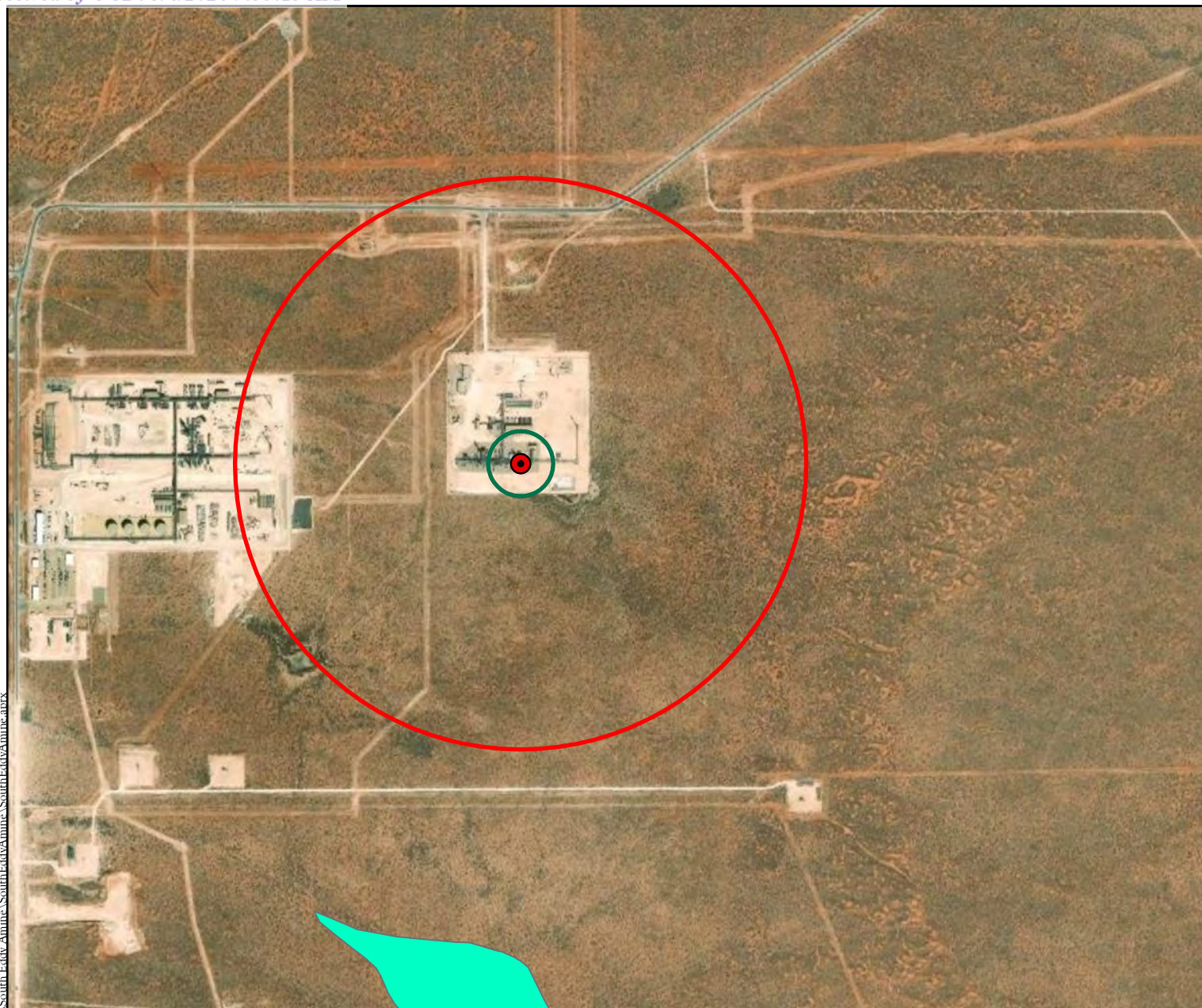
Checked _____

Approved _____



201 South Halagueno Street
Carlsbad, New Mexico 88221
(575) 689-7040
Serving the Southwest & Rocky Mountains

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Legend

- Point of Release
- FEMA Flood Zones
- 0.5 Mile Radius
- 300 Foot Radius

0 1,000 2,000

Feet

Scale: 1:16,871



Point of Release Coordinates:
-103.82791W 32.160412N

Aerial Site Map

South Eddy Cryo Plant - Enterprise Field Services, LLC
UL: H S: 1 T: 25S R: 30E, Eddy County, New Mexico

Figure 2

Revisions

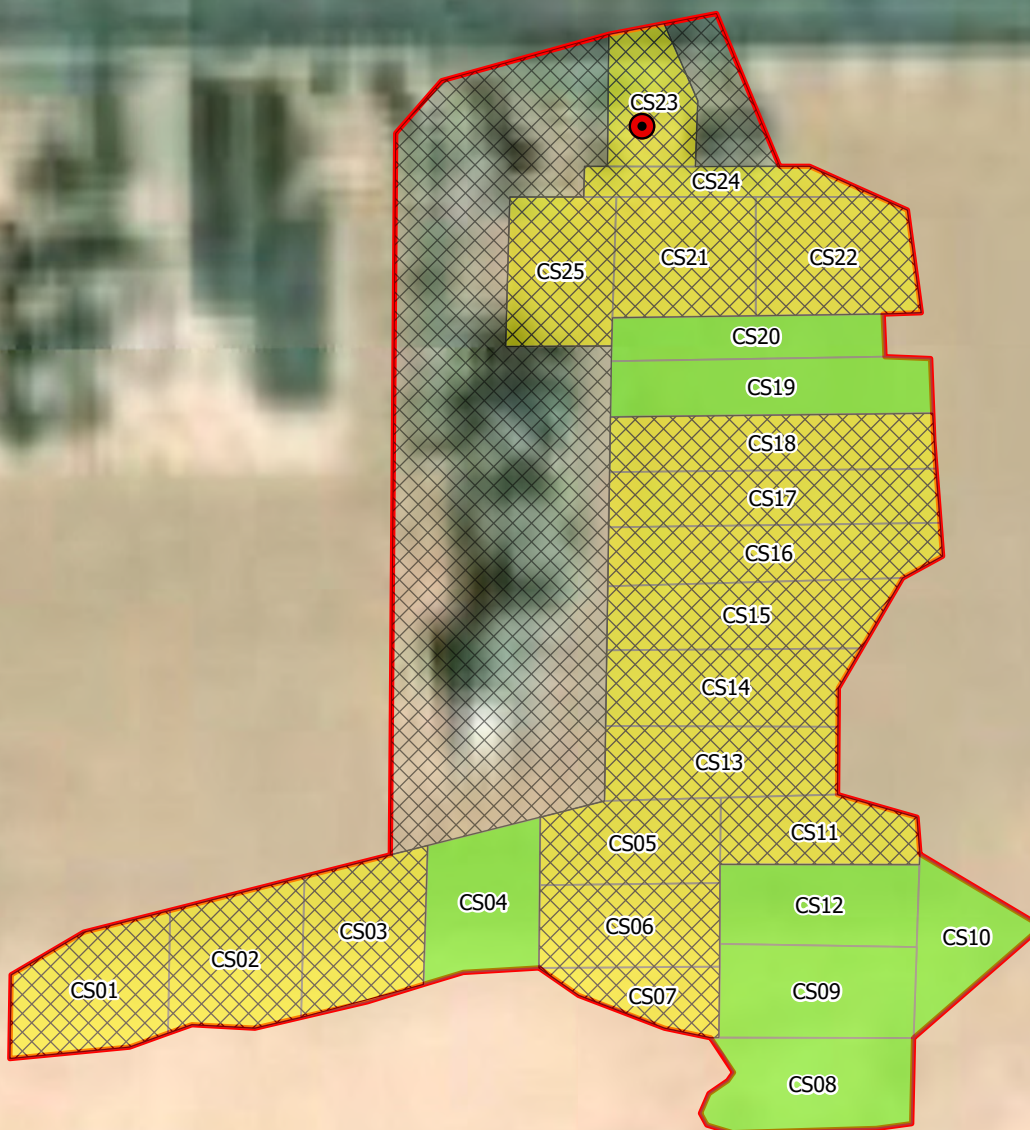
By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn Sarahmay Schlea
Date 12/22/2022
Checked _____
Approved _____



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Legend

- Point of Release
- Release Area

Confirmation Samples

- Meets Closure Criteria
- Exceeds Closure Criteria
- Deferral Area

0 5 10 20
Feet

Scale: 1:240



Point of Release Coordinates:
-103.82791W 32.160412N

Site and Sample Location Map
South Eddy Cryo Pant - Enterprise Field Services, LLC
UL: H S: 1 T: 25S R: 30E, Eddy County, New Mexico

Figure 3

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

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Drawn Sarahmay Schlea
Date 2/17/2023
Checked _____
Approved _____



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Carlsbad, New Mexico 88221
(575) 689-7040
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TABLES

Table 2:
NMOCD Closure Criteria

Enterprise Field Services LLC
South Eddy Cryo Plant Amine Release

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	429	NMOSE and USGS Water Well Data
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	260	NMOSE and USGS Water Well Data
Horizontal Distance to Nearest Significant Watercourse (ft)	2,540	USGS Topographic Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	Yes					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					



Table 3:
Summary of Laboratory Analytical Results

Enterprise Field Services LLC
South Eddy Cryo Amine Release

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D					Method 300.0
			BTEX	Benzene	GRO	DRO	GRO + DRO	MRO	Total TPH	Chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Remediation Closure Criteria			50	10	--	--	--	--	100	600
Delineation Criteria*			50	10	--	--	1,000	--	2,500	20,000
CS01	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	61	61	<50.0	61	628
CS02	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	28.5	28.5	<50.0	28.5	671
CS03	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	924
CS04	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	27.6	27.6	<50.0	27.6	582
CS05	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,210
CS06	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,360
CS07	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	774
CS08	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	520
CS09	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	235
CS10	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	361
CS11	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,350
CS12	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	295
CS13	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	629
CS14	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	796
CS15	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	25.5	25.5	<50.0	25.5	1,060
CS16	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	978
CS17	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,140
CS18	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,210
CS19	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	275
CS20	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	274
CS21	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,270
CS22	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	<25.0	<45.0	<50.0	<95.0	1,320
CS23	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	367	367	1790	2,157	198
CS24	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	143	143	289	432	930
CS25	1/13/2023	0.5 to 0.75	<0.100	<0.0250	<20.0	233	233	<50.0	233	49.3

Notes: NMOCD - New Mexico Oil Conservation Division
bgs - below grade surface
mg/kg - milligram per kilogram
"--" indicates not analyzed or not applicable
BTEX - benzene, toluene, ethylbenzene, and xylenes

GRO - gasoline range organics
DRO - diesel range organics
MRO - motor oil range organics
TPH - total petroleum hydrocarbons
*Based on depth to groundwater greater than 100 ft bgs



APPENDIX A

FORM C-141 AND

CORRESPONDENCE

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	NAPP2233445626
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Enterprise Field Services LLC	OGRID	241602
Contact Name	Robert Dunaway	Contact Telephone	575-628-6802
Contact email	rhunaway@eprod.com	Incident # (assigned by OCD)	nAPP2233445626
Contact mailing address	PO Box 4324, Houston, TX 77210		

Location of Release Source

Latitude 32.160412 Longitude -103.82791
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	South Eddy Cryo	Site Type	Natural Gas Processing Plant
Date Release Discovered	11/30/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
H	01	25S	30E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Enterprise Field Services)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) Lean Amine 8 bbl	Volume/Weight Recovered (provide units) 4 bbl


Cause of Release

A sump overflowed causing 8 bbl of lean amine to spill onto the ground.

Page 2

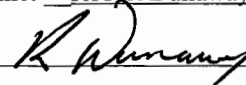
State of New Mexico
Oil Conservation Division

Incident ID	NAPP2233445626
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? 
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Robert Dunaway</u>	Title: <u>Senior Environmental Engineer</u>
Signature: 	Date: <u>12/7/22</u>
email: <u>rhodunaway@eprod.com</u>	Telephone: <u>575-628-6802</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>12/07/2022</u>

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

Action 164743

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 164743
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/7/2022

Heather Woods

From: Heather Woods
Sent: Tuesday, January 10, 2023 4:53 PM
To: ocd.enviro@emnrd.nm.gov
Cc: rhdunaway@eprod.com; Sarahmay Schlea; Georgeann Goodman
Subject: Confirmation Sampling Notification - Enterprise South Eddy Cryo (nAPP2233445626)

Good Afternoon,

Souder, Miller & Associates will be onsite to collect confirmation samples at the Enterprise South Eddy Cryo release (nAPP2233445626) located at 32.160412, -103.82791, on Friday, January 13th beginning at 8:00am.

Many Thanks,
Heather Woods

Heather Woods, P.G.
Project Geoscientist

Personal Registrations: UT Professional Geologist

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX PST CAPM (CS-0000051), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)

**Souder, Miller & Associates**

Engineering ♦ Environmental ♦ Geomatics

401 West Broadway

Farmington, NM 87401

(505) 716-2787 (mobile)

(505) 325-7535 (office)

Heather.Woods@soudermiller.com

www.soudermiller.com



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Statement on Viruses and Harmful Software: While the message and attachment(s) have been scanned with anti-virus software, SMA does not guarantee that this message or any attachment(s) is free of computer viruses or other harmful software. SMA does not accept liability for any damages caused by any computer virus or other harmful software transmitted herewith.

APPENDIX B

WATER WELL DATA

OSE POD Locations Map



2/17/2023, 1:26:06 PM

GIS WATERS PODs

OSE District Boundary

SiteBoundaries

●

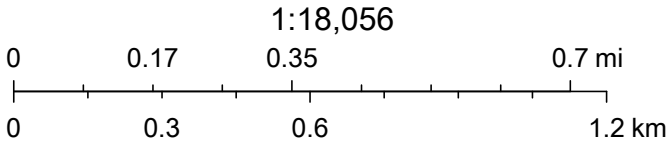
Active

●

Pending

New Mexico State Trust Lands

Both Estates



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2015 DEC -4 AM 10: 03

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3891 POD-2				OSE FILE NUMBER(S) C-3891			
	WELL OWNER NAME(S) Enterprise Partners L.P.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 1100 Louisiana St. Rm11.104				CITY STATE ZIP Houston TX 77002			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 9 39.8 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE	103	49 37.1 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE 15 miles southeast of Malaga, NM Section 1 Township 25S Range 30E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1723		NAME OF LICENSED DRILLER Randy Stewart			NAME OF WELL DRILLING COMPANY Stewart Bros. Drilling		
	DRILLING STARTED 11/10/15		DRILLING ENDED 11/14/15		DEPTH OF COMPLETED WELL (FT) 635		BORE HOLE DEPTH (FT) 650	
							DEPTH WATER FIRST ENCOUNTERED (FT) 429	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) 429	
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	18	J-55 Steel	N/A	12.625	375	N/A
	20	459	12.250	ATSM A53 grade B steel	Weld	6.125	250	N/A
459	460	12.250	Dissimilar metal adapter	Weld	6.125	250	N/A	
460	635	12.250	ASTM A778 304 Stainless Steel	Weld	6.125	250	1/16	
635	650	12.250	None	N/A	N/A	N/A		
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	5	12.250	1/4" Pea Gravel	3	Tremie		
	5	427	12.250	Neat Cement	245	Tremie		
	427	429	12.250	#100 fine sand	2	Tremie		
	429	650	12.250	8-12 Sand	149	Tremie		

FOR OSE INTERNAL USE

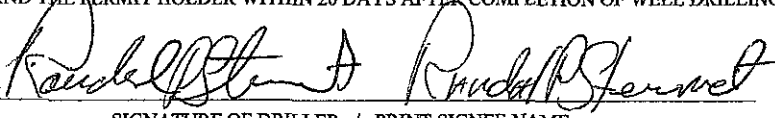
WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3891	POD NUMBER	2	TRN NUMBER	571228
LOCATION	25S.30E.1.2.44			Monitor	PAGE 1 OF 2

STATE ENGINEER OFFICE
ROS WELL, NEW MEXICO

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	2015 DEC -4 WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	20	20	Caliche- hard medium to fine sand	Y ✓ N	
	20	50	30	Sand- tan, medium to fine grained, some silt	Y ✓ N	
	50	180	130	Sand- light brown, medium to fine grained, poorly graded, some silt	Y ✓ N	
	180	200	20	Silty sand- light brown, well graded	Y ✓ N	
	200	210	10	Sand- lt. brown, medium to fine grain, poorly graded, some silt, few fine gravel	Y ✓ N	
	210	280	70	Clayey silt- reddish brown, fine to medium sand	Y ✓ N	
	280	360	80	Silty sand- light brown, medium to fine grained, reddish silt	Y ✓ N	
	360	420	60	Sand- light brown, medium to fine grained, well graded, few gravel	Y ✓ N	
	420	450	30	Sand- tan, fine grained, some silt	✓ Y N	
	450	460	10	Silty sand- reddish brown, fine to medium grained	✓ Y N	
	460	490	30	Sand, tan, fine grained, some silt	✓ Y N	
	490	500	10	Sand- tan, fine grained, some silt, few fine gravel	✓ Y N	
	500	530	30	Clayey silt- reddish brown, some fine sand	✓ Y N	
	530	635	105	Silty sand- light brown, medium to fine grained	✓ Y N	
	635	650	15	Mudstone- Red	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					33+ 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: 18 hr. drawdown= 67.5' @33gpm, well yield exceeds 33 GPM	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Danny L White	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME	12/1/15 DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3891	POD NUMBER	2	TRN NUMBER	571228
LOCATION	25S-30E-1-2-4-4			Monitor	PAGE 2 OF 2



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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03716 POD1		CUB	ED	4	2	2	02	25S	30E	609069	3559211	600	425	175
C 03891 POD1		CUB	ED	4	4	2	01	25S	30E	610608	3558890	635	429	206

Average Depth to Water: **427 feet**

Minimum Depth: **425 feet**

Maximum Depth: **429 feet**

Record Count: 2

PLSS Search:

Section(s): 2, 1, 11, 12

Township: 25S

Range: 30E

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

12/23/22 9:04 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 31

Township: 24S

Range: 31E

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

12/23/22 9:05 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 04520 POD1	C	ED		3	3	4	35	24S	30E	608454	3559687	630	455	175

Average Depth to Water: **455 feet**

Minimum Depth: **455 feet**

Maximum Depth: **455 feet**

Record Count: 1

PLSS Search:

Section(s): 35, 36

Township: 24S

Range: 30E

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 6, 7

Township: 25S

Range: 31E

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

12/23/22 9:05 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

12-16-2010
12 P 5:16

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) C03716				OSE FILE NUMBER(S) C03716				
	WELL OWNER NAME(S) BoPco LP				PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS 3104 EAST GREEN 50.76				CITY STATE ZIP CARLSBAD NM 88220				
	WELL LOCATION (FROM GPS)		DEGREES MINUTES SECONDS LATITUDE 32 09 846 N LONGITUDE 103 50 35 595 W		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS West of Buck Jackson Rd, in center of Sub Station									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION 2	TOWNSHIP 25 <input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH	RANGE 30 <input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER WD-1229		NAME OF LICENSED DRILLER Richard Carter			NAME OF WELL DRILLING COMPANY Carter Well Drilling			
	DRILLING STARTED 2/5/2014		DRILLING ENDED 3/3/2014		DEPTH OF COMPLETED WELL (FT) Plugged		BORE HOLE DEPTH (FT) 600		
					DEPTH WATER FIRST ENCOUNTERED (FT) 442		STATIC WATER LEVEL IN COMPLETED WELL (FT) 425		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)								
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:								
	DEPTH (FT) FROM TO		BORE HOLE DIA. (IN)		CASING MATERIAL		CONNECTION TYPE (CASING)		
4. WATER BEARING STRATA	DEPTH (FT) FROM TO		THICKNESS (FT)		FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)			YIELD (GPM)	
	442 600		158		Red sandstone			50	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA							TOTAL ESTIMATED WELL YIELD (GPM) 50		

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER C-3716	POD NUMBER	TRN NUMBER 539192	PAGE 1 OF 2
LOCATION 25S, 30E, 02	2-2-4		

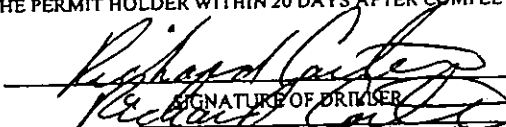
STATE ENGINEER
OFFICE
2714 MAR

5. SEAL AND PUMP	TYPE OF PUMP:		<input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> TURBINE		<input type="checkbox"/> JET <input type="checkbox"/> CYLINDER	<input checked="" type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> OTHER - SPECIFY:	2	METHOD OF PLACEMENT
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)		
		FROM	TO					
		0	425	8 3/4	Cement & water	252		TREMIE
		425	600	8 3/4	Silica Sand	73.5		TREMIE

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	0	2	2	white Caliche	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	2	4	2	Red Sand	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	4	18	14	white Caliche	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	18	120	102	Red Sand	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	120	168	48	Red Clay	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	168	263	95	Red Sand stone	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	263	266	3	Red Clay	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	266	406	146	Red sandstone	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	406	416	10	Red Clay	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	416	442	26	gray Clay	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	442	600		Red sandstone	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	ADDITIONAL STATEMENTS OR EXPLANATIONS:	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRIVER	3/10/2014 DATE

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	C-3716	POD NUMBER		TRN NUMBER	539192
LOCATION	25S.30E.02	2-2-4		PAGE 2 OF 2	

APPENDIX C

SAMPLING PROTOCOL



Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Laboratory in Farmington, New Mexico for analysis. Samples collected for laboratory analysis were analyzed for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured courier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D FIELD NOTES AND PHOTO LOG

Enterprise South Eddy Cryst

1/13/2023

onsite @ 0830

Collect excavation confirmation samples.

Take photos.

offsite @ 1040

Photograph Log
South Eddy Cryo Amine Release
Enterprise Field Services



Photograph #1	
Client: Enterprise Field Services	
Site Name: South Eddy Cryo Amine Release	
Date Photo Taken: 01/13/2023	
Release Location: N32.160412, W103.82791 H-S1-T25S- R30E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing west-northwest, view of the remediation area.

Photograph Log
South Eddy Cryo Amine Release
Enterprise Field Services



Photograph #2	A photograph of an industrial site, likely a gas processing plant, showing large silver pipes and machinery. In the foreground, there is a large area of reddish-brown soil, possibly a remediation site, enclosed by a red plastic safety fence. A compass overlay at the top of the photo shows a scale from 240 to 360 degrees, with 'W' at 270, 'NW' at 315, 'N' at 0, and 'NE' at 45. Below the scale, the text reads: '326°NW (T) 32.160309°N, 103.827882°W ±13ft 3403ft'. A green timestamp in the bottom right corner of the photo reads '01/13/2023, 10:32:02 MST'.
Client: Enterprise Field Services	
Site Name: South Eddy Cryo Amine Release	
Date Photo Taken: 01/13/2023	
Release Location: N32.160412, W103.82791 H-S1-T25S- R30E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing northwest, view of the remediation area.

Photograph Log
South Eddy Cryo Amine Release
Enterprise Field Services



Photograph #3	
Client: Enterprise Field Services	
Site Name: South Eddy Cryo Amine Release	
Date Photo Taken: 01/13/2023	
Release Location: N32.160412, W103.82791 H-S1-T25S- R30E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north-northeast, view of the remediation area.

Photograph Log
South Eddy Cryo Amine Release
Enterprise Field Services



Photograph #4	A photograph of an industrial site, likely a cryogenic storage facility, with large metal tanks and piping. In the foreground, there is a fenced-in area of reddish-brown soil, possibly a remediation site. The sky is clear blue. A compass overlay at the top of the photo shows a scale from 0 to 150 degrees, with 'N', 'NE', 'E', and 'SE' marked. Below the scale, the following coordinates are displayed: 81°E (T), 32.160318°N, 103.827839°W ±13ft, and an elevation of 3398ft. A green timestamp '01/13/2023, 10:33:18 MST' is visible in the bottom right corner of the photo.
Client: Enterprise Field Services	
Site Name: South Eddy Cryo Amine Release	
Date Photo Taken: 01/13/2023	
Release Location: N32.160412, W103.82791 H-S1-T25S- R30E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing east, view of the remediation area.

Photograph Log
South Eddy Cryo Amine Release
Enterprise Field Services



Photograph #5	
Client: Enterprise Field Services	
Site Name: South Eddy Cryo Amine Release	
Date Photo Taken: 01/13/2023	
Release Location: N32.160412, W103.82791 H-S1-T25S- R30E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Facing north, view of the remediation area.

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Report to:
Heather Woods



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: South Eddy Cryo Plant

Work Order: E301073

Job Number: 97057-0001

Received: 1/14/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/27/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/27/23

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: South Eddy Cryo Plant
Workorder: E301073
Date Received: 1/14/2023 8:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/14/2023 8:00:00AM, under the Project Name: South Eddy Cryo Plant.

The analytical test results summarized in this report with the Project Name: South Eddy Cryo Plant apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	02/27/23 11:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @ 0	E301073-01A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
BH02 @ 0	E301073-02A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
BH03 @ 0	E301073-03A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
BH04 @ 0	E301073-04A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS01	E301073-05A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS02	E301073-06A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS03	E301073-07A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS04	E301073-08A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS05	E301073-09A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS06	E301073-10A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS07	E301073-11A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS08	E301073-12A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS09	E301073-13A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS10	E301073-14A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS11	E301073-15A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS12	E301073-16A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS13	E301073-17A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS14	E301073-18A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS15	E301073-19A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS16	E301073-20A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.



Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: South Eddy Cryo Plant Project Number: 97057-0001 Project Manager: Heather Woods	Reported: 2/27/2023 11:37:30AM
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CS01

E301073-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302083
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302083
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2303002
Diesel Range Organics (C10-C28)	61.0	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	71.3 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302085
Chloride	628	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS02

E301073-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	28.5	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	95.1 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	671	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS03

E301073-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	89.7 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	924	40.0	2	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: South Eddy Cryo Plant
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
2/27/2023 11:37:30AM

CS04

E301073-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.2 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.5 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	27.6	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
<i>Surrogate: n-Nonane</i>	94.3 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	582	40.0	2	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS05

E301073-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	84.5 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	1210	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS06

E301073-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	104 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	1360	100	5	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS07

E301073-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	103 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	774	40.0	2	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS08

E301073-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	98.9 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	99.7 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	520	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS09

E301073-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	98.7 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	235	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: South Eddy Cryo Plant Project Number: 97057-0001 Project Manager: Heather Woods	Reported: 2/27/2023 11:37:30AM
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CS10

E301073-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	99.2 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	361	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: South Eddy Cryo Plant Project Number: 97057-0001 Project Manager: Heather Woods	Reported: 2/27/2023 11:37:30AM
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CS11

E301073-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.8 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	99.3 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	1350	100	5	01/14/23	01/15/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS12

E301073-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	98.8 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	295	20.0	1	01/14/23	01/15/23	



Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: South Eddy Cryo Plant Project Number: 97057-0001 Project Manager: Heather Woods	Reported: 2/27/2023 11:37:30AM
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CS13

E301073-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	108 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	629	20.0	1	01/14/23	01/15/23	



Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: South Eddy Cryo Plant Project Number: 97057-0001 Project Manager: Heather Woods	Reported: 2/27/2023 11:37:30AM
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CS14

E301073-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	99.6 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	97.2 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	796	20.0	1	01/14/23	01/15/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS15

E301073-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	25.5	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	97.1 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	1060	20.0	1	01/14/23	01/15/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 2/27/2023 11:37:30AM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS16

E301073-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Benzene	ND	0.0250	1	01/14/23	01/16/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/16/23	
Toluene	ND	0.0250	1	01/14/23	01/16/23	
o-Xylene	ND	0.0250	1	01/14/23	01/16/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/16/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/16/23	
Surrogate: 4-Bromochlorobenzene-PID	99.8 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		01/14/23	01/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	98.2 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302085	
Chloride	978	20.0	1	01/14/23	01/15/23	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	2/27/2023 11:37:30AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2302083-BLK1) Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2302083-BS1) Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	4.46	0.0250	5.00		89.1	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.3	70-130			
Toluene	4.81	0.0250	5.00		96.3	70-130			
o-Xylene	4.91	0.0250	5.00		98.1	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

Matrix Spike (2302083-MS1) Source: E301073-04 Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	4.63	0.0250	5.00	ND	92.6	54-133			
Ethylbenzene	4.95	0.0250	5.00	ND	99.1	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

Matrix Spike Dup (2302083-MSD1) Source: E301073-04 Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	4.50	0.0250	5.00	ND	90.1	54-133	2.78	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133	2.80	20	
Toluene	4.87	0.0250	5.00	ND	97.4	61-130	2.82	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131	2.78	20	
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	63-131	2.64	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.2	63-131	2.69	20	
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	2/27/2023 11:37:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2302083-BLK1) Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

LCS (2302083-BS2) Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			

Matrix Spike (2302083-MS2) Source: E301073-04 Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			

Matrix Spike Dup (2302083-MSD2) Source: E301073-04 Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.5	70-130	1.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	2/27/2023 11:37:30AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2303002-BLK1)					Prepared: 01/15/23 Analyzed: 01/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.8		50.0		116	50-200			

LCS (2303002-BS1)					Prepared: 01/15/23 Analyzed: 01/16/23				
Diesel Range Organics (C10-C28)	224	25.0	250		89.7	38-132			
Surrogate: n-Nonane	50.1		50.0		100	50-200			

Matrix Spike (2303002-MS1)					Source: E301073-01		Prepared: 01/15/23 Analyzed: 01/16/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132			
Surrogate: n-Nonane	54.1		50.0		108	50-200			

Matrix Spike Dup (2303002-MSD1)					Source: E301073-01		Prepared: 01/15/23 Analyzed: 01/17/23		
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.06	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	2/27/2023 11:37:30AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2302085-BLK1)					Prepared: 01/14/23 Analyzed: 01/14/23				
Chloride	ND	20.0							
LCS (2302085-BS1)					Prepared: 01/14/23 Analyzed: 01/14/23				
Chloride	241	20.0	250		96.2	90-110			
LCS Dup (2302085-BSD1)					Prepared: 01/14/23 Analyzed: 01/14/23				
Chloride	248	20.0	250		99.3	90-110	3.10	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	
201 S Halagueno St.	Project Number:	97057-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	02/27/23 11:37

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

Page 1 of 3

Project Information

Client: Souder Mullen & Associates
 Project: South Eddy Cleanup Plant
 Project Manager: Heather Woods
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____
 Report due by: _____

Bill To

Attention: Enterprise
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

WO# 22121

Lab Use Only

Lab WO# P301073 Job Number 97057-0001

TAT
1D 3D X

EPA Program

RCRA CWA SDWA

Analysis and Method

State

NM CO UT AZ

X TX OK

Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DHO/DRO by R015	GRO/DRO by R015	PTX by R021	VOC by R260	Metals 6010	Chloride 30010	UGDOC - NM	UGDOC - TX	Remarks
0945	1/13	S	1	BH01@0	1							X		
0947	1/13	S	1	BH02@0	2							X		
0949	1/13	S	1	BH03@0	3							X		
0951	1/13	S	1	BH04@0	4							X		
0954	1/13	S	1	CS01	5							X		
0955	1/13	S	1	CS02	6							X		
0956	1/13	S	1	CS03	7							X		
0957	1/13	S	1	CS04	8							X		
0958	1/13	S	1	CS05	9							X		
0959	1/13	S	1	CS06	10							X		

Additional Instructions:

Please send to Heather Woods, Sarahmaif Schlee, Georgeann Goodman

(Find sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received once the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C or subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	1/13/23	1214	<u>[Signature]</u>	1-13-23	1540	Received on ice: <u>YY</u> N
<u>[Signature]</u>	1-13-23	1700	<u>[Signature]</u>	1-13-23	1800	T1 _____ T2 _____ T3 _____
<u>[Signature]</u>	1-13-23	2400	<u>[Signature]</u>	1-14-23	8:00	AVG Temp °C <u>4</u>

Sample Matrix: S - Sol, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 90 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Chain of Custody

Project Information

Client: Snyder Miller & Associates
 Project: South Eddy Creek Plant
 Project Manager: Heather Woods
 Address: 201 S. Habagueno
 City, State, Zip: Carlsbad NM 88220
 Phone: _____
 Email: _____

Bill To
 Attention: Enterprise
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

WO# Rd22121

Lab Use Only
 Lab WO# P301073 Job Number 97057-0001
 Analysis and Method

TAT
 1D 3D
☒ ☐

EPA Program
 RCRA CWA SDWA

State

NM CO UT AZ
☒ ☐ ☐ ☐
 TX OK

Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	PHO/CHO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 30010	UGDOC - NM	UGDOC - TX	Remarks
1000	1/13	S	1	CS07	11							X		
1001	1/13	S	1	CS08	12							X		
1002	1/13	S	1	CS09	13							X		
1003	1/13	S	1	CS10	14							X		
1004	1/13	S	1	CS11	15							X		
1005	1/13	S	1	CS12	16							X		
1006	1/13	S	1	CS13	17							X		
1007	1/13	S	1	CS14	18							X		
1008	1/13	S	1	CS15	19							X		
1009	1/13	S	1	CS16	20							X		

Additional Instructions:

Please send to Heather Woods, Sarahmay Schlee, Georgeann Goodman
 I, the sampler, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or returned packed in ice at an average above 32 but less than 40 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	1/13/23	1221	<u>Nichelle Eys</u>	1-13-23	1540	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<u>Nichelle Eys</u>	1-13-23	1700	<u>Renee Lin</u>	1-13-23	1800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<u>Renee Lin</u>	1-13-23	2400	<u>[Signature]</u>	1-14-23	8:00	4

Sample Matrix: S - Sol, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 90 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 1/16/2023 9:59:31AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	01/14/23 08:00	Work Order ID:	E301073
Phone:	(575) 200-5443	Date Logged In:	01/14/23 09:21	Logged In By:	Alexa Michaels
Email:		Due Date:	01/16/23 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client InstructionComments/Resolution

Project South Eddy Cyro Plant has been separated into 2 reports due to sample volume. Workorders are as follows E301073 & E301074.

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 2

Client: <u>Snyder Mullen & Associates</u> Project: <u>South Eddy Culp Plant</u> Project Manager: <u>Heather Woods</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Enterprise</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ WO# <u>22121</u>					Lab Use Only Lab WO# <u>P301073</u> Job Number <u>97057-0001</u> Analysis and Method						TAT 1D 3D <input checked="" type="checkbox"/> <input type="checkbox"/>		EPA Program RCRA CWA SDWA <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
													State NM CO UT AZ <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TX OK <input type="checkbox"/> <input type="checkbox"/>							
													Remarks							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3010	BGDOC - NM	BGDOC - TX							
0945	1/13	S	1	BH01@0	1							X		Removed						
0947	1/13	S	1	BH02@0	2							X		Samples						
0949	1/13	S	1	BH03@0	3							X		1-4 per						
0951	1/13	S	1	BH04@0	4							X		Client						
0954	1/13	S	1	CS01	5							X		request						
0955	1/13	S	1	CS02	6							X		H. Woods						
0956	1/13	S	1	CS03	7							X		2.27.23						
0957	1/13	S	1	CS04	8							X		S1						
0958	1/13	S	1	CS05	9							X								
0959	1/13	S	1	CS06	10							X								
Additional Instructions: <u>Please send to Heather Woods, Sarahmau Schlee, Georgeann Goodman</u> (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sample by: _____ Relinquished by: (Signature) _____ Date <u>1/13/23</u> Time <u>1214</u> Received by: (Signature) _____ Date <u>1-13-23</u> Time <u>1540</u> Relinquished by: (Signature) _____ Date <u>1-13-23</u> Time <u>1700</u> Received by: (Signature) _____ Date <u>1-13-23</u> Time <u>800</u> Relinquished by: (Signature) _____ Date <u>1-13-23</u> Time <u>2400</u> Received by: (Signature) _____ Date <u>1-14-23</u> Time <u>8:00</u> Sample Matrix: S - Sol, Sd - Solid, Sg - Sludge A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

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Page 2 of 2

Chain of Custody

Project Information

Client: <u>Snyder, M. & Associates</u> Project: <u>South, Todd Creek Plant</u> Project Manager: <u>Heather Woods</u> Address: <u>201 S. Albuquerque</u> City, State, Zip: <u>Albuquerque NM 87102</u> Phone: _____ Email: _____					Bill To Attention: <u>Enterprise</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ <u>WB # Rd22121</u>					Lab Use Only Lab WO# <u>P301073</u> Job Number <u>91057-001</u> Analysis and Method					TAT 1D 3D <input checked="" type="checkbox"/> <input type="checkbox"/>		EPA Program RCRA CWA SDWA <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Report due by: _____										State NM CO UT AZ <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		TX OK <input type="checkbox"/> <input type="checkbox"/>							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	SYNTH by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 3000	NON-HCDB by 8010	KL-HCDB by 8010	Remarks					
1000	1/13	S	1	CS07	11														
1001	1/13	S	1	CS08	12														
1002	1/13	S	1	CS09	13														
1003	1/13	S	1	CS10	14														
1004	1/13	S	1	CS11	15														
1005	1/13	S	1	CS12	16														
1006	1/13	S	1	CS13	17														
1007	1/13	S	1	CS14	18														
1008	1/13	S	1	CS15	19														
1009	1/13	S	1	CS16	20														
Additional Instructions: <u>Please send to Heather Woods, Sarahmaly Schlee, Georgeann Goodman</u> I, the sampler, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____																			
Relinquished by: (Signature) _____ Date <u>1-13-23</u> Time <u>1221</u>					Received by: (Signature) <u>Michelle Eys</u> Date <u>1-13-23</u> Time <u>1540</u>					Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N									
Relinquished by: (Signature) <u>Michelle Eys</u> Date <u>1-13-23</u> Time <u>1700</u>					Received by: (Signature) <u>Lorena Lin</u> Date <u>1-13-23</u> Time <u>1800</u>					T1 _____ T2 _____ T3 _____									
Relinquished by: (Signature) <u>Lorena Lin</u> Date <u>1-13-23</u> Time <u>2400</u>					Received by: (Signature) <u>Michelle Eys</u> Date <u>1-14-23</u> Time <u>8:00</u>					AVG Temp °C <u>4</u>									
Sample Matrix: S - Sol, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

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Report to:
Heather Woods



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Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name: South Eddy Cryo Plant

Work Order: E301074

Job Number: 97057-0001

Received: 1/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/17/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 1/17/23

Heather Woods
201 S Halagueno St.
Carlsbad, NM 88220



Project Name: South Eddy Cryo Plant
Workorder: E301074
Date Received: 1/14/2023 8:00:00AM

Heather Woods,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/14/2023 8:00:00AM, under the Project Name: South Eddy Cryo Plant.

The analytical test results summarized in this report with the Project Name: South Eddy Cryo Plant apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Lynn Jarboe
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 01/17/23 16:12
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS17	E301074-01A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS18	E301074-02A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS19	E301074-03A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS20	E301074-04A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS21	E301074-05A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS22	E301074-06A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS23	E301074-07A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS24	E301074-08A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.
CS25	E301074-09A	Soil	01/13/23	01/14/23	Glass Jar, 4 oz.



Sample Data

Souder Miller Associates - Carlsbad 201 S Halagueno St. Carlsbad NM, 88220	Project Name: South Eddy Cryo Plant Project Number: 97057-0001 Project Manager: Heather Woods	Reported: 1/17/2023 4:12:17PM
--	---	----------------------------------

CS17

E301074-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303003	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	96.6 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302086	
Chloride	1140	40.0	2	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: South Eddy Cryo Plant
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
1/17/2023 4:12:17PM

CS18

E301074-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.7 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2303003
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302086
Chloride	1210	100	5	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 1/17/2023 4:12:17PM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS19

E301074-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303003	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	97.1 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302086	
Chloride	275	40.0	2	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 1/17/2023 4:12:17PM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS20

E301074-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.6 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303003	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
Surrogate: n-Nonane	97.9 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302086	
Chloride	274	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: South Eddy Cryo Plant
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
1/17/2023 4:12:17PM

CS21

E301074-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2303003
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302086
Chloride	1270	40.0	2	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: South Eddy Cryo Plant
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
1/17/2023 4:12:17PM

CS22

E301074-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2303003
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	
<i>Surrogate: n-Nonane</i>						
	96.0 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302086
Chloride	1320	100	5	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 1/17/2023 4:12:17PM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS23

E301074-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303003	
Diesel Range Organics (C10-C28)	367	50.0	2	01/15/23	01/16/23	
Oil Range Organics (C28-C36)	1790	100	2	01/15/23	01/16/23	
<i>Surrogate: n-Nonane</i>						
	96.4 %	50-200		01/15/23	01/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302086	
Chloride	198	20.0	1	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported: 1/17/2023 4:12:17PM
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	

CS24

E301074-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2302087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2303003	
Diesel Range Organics (C10-C28)	143	25.0	1	01/15/23	01/16/23	T17
Oil Range Organics (C28-C36)	289	50.0	1	01/15/23	01/16/23	T17
Surrogate: n-Nonane	97.5 %	50-200		01/15/23	01/16/23	T17
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2302086	
Chloride	930	200	10	01/14/23	01/14/23	



Sample Data

Souder Miller Associates - Carlsbad
201 S Halagueno St.
Carlsbad NM, 88220

Project Name: South Eddy Cryo Plant
Project Number: 97057-0001
Project Manager: Heather Woods

Reported:
1/17/2023 4:12:17PM

CS25

E301074-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Benzene	ND	0.0250	1	01/14/23	01/15/23	
Ethylbenzene	ND	0.0250	1	01/14/23	01/15/23	
Toluene	ND	0.0250	1	01/14/23	01/15/23	
o-Xylene	ND	0.0250	1	01/14/23	01/15/23	
p,m-Xylene	ND	0.0500	1	01/14/23	01/15/23	
Total Xylenes	ND	0.0250	1	01/14/23	01/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2302087
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/14/23	01/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		01/14/23	01/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2303003
Diesel Range Organics (C10-C28)	233	25.0	1	01/15/23	01/16/23	T17
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/23	01/16/23	T17
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		01/15/23	01/16/23	T17
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2302086
Chloride	49.3	40.0	2	01/14/23	01/14/23	



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	1/17/2023 4:12:17PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2302087-BLK1)

Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2302087-BS1)

Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	4.01	0.0250	5.00		80.3	70-130			
Ethylbenzene	4.27	0.0250	5.00		85.4	70-130			
Toluene	4.34	0.0250	5.00		86.7	70-130			
o-Xylene	4.45	0.0250	5.00		89.0	70-130			
p,m-Xylene	8.67	0.0500	10.0		86.7	70-130			
Total Xylenes	13.1	0.0250	15.0		87.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

Matrix Spike (2302087-MS1)

Source: E301074-03

Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	4.16	0.0250	5.00	ND	83.2	54-133			
Ethylbenzene	4.42	0.0250	5.00	ND	88.4	61-133			
Toluene	4.49	0.0250	5.00	ND	89.8	61-130			
o-Xylene	4.61	0.0250	5.00	ND	92.2	63-131			
p,m-Xylene	8.98	0.0500	10.0	ND	89.8	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike Dup (2302087-MSD1)

Source: E301074-03

Prepared: 01/14/23 Analyzed: 01/15/23

Benzene	4.39	0.0250	5.00	ND	87.8	54-133	5.38	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.7	61-133	5.89	20	
Toluene	4.75	0.0250	5.00	ND	95.0	61-130	5.58	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	5.84	20	
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131	5.86	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.1	63-131	5.85	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	1/17/2023 4:12:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2302087-BLK1) Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

LCS (2302087-BS2) Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2302087-MS2) Source: E301074-03 Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

Matrix Spike Dup (2302087-MSD2) Source: E301074-03 Prepared: 01/14/23 Analyzed: 01/15/23

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.7	70-130	2.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	1/17/2023 4:12:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2303003-BLK1)					Prepared: 01/15/23 Analyzed: 01/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.1		50.0		118	50-200			

LCS (2303003-BS1)					Prepared: 01/15/23 Analyzed: 01/17/23				
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	56.7		50.0		113	50-200			

Matrix Spike (2303003-MS1)					Source: E301072-01		Prepared: 01/15/23 Analyzed: 01/17/23		
Diesel Range Organics (C10-C28)	309	25.0	250	43.4	106	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike Dup (2303003-MSD1)					Source: E301072-01		Prepared: 01/15/23 Analyzed: 01/17/23		
Diesel Range Organics (C10-C28)	349	25.0	250	43.4	122	38-132	12.0	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	Reported:
201 S Halagueno St.	Project Number:	97057-0001	
Carlsbad NM, 88220	Project Manager:	Heather Woods	1/17/2023 4:12:17PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2302086-BLK1)					Prepared: 01/14/23 Analyzed: 01/14/23				
Chloride	ND	20.0							
LCS (2302086-BS1)					Prepared: 01/14/23 Analyzed: 01/14/23				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2302086-BSD1)					Prepared: 01/14/23 Analyzed: 01/14/23				
Chloride	253	20.0	250		101	90-110	0.273	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	South Eddy Cryo Plant	
201 S Halagueno St.	Project Number:	97057-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Heather Woods	01/17/23 16:12

- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Project Information

Client: Sauder Mully + Associates
 Project: South Eddy Creek Plant
 Project Manager: Heather Woods
 Address: 201 S. Halagueno
 City, State, Zip: Carlisle NM 88220
 Phone: _____
 Email: _____
 Report due by: _____

Bill To

Attention: Enterprise
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: wo#rd22221

Lab Use Only

Lab WO# PE301074 Job Number 97057-0001
 Analysis and Method

TAT

1D ☒ 3D ☐

EPA Program

RCRA ☐ CWA ☐ SDWA ☐

State

NM ☒ CO ☐ UT ☐ AZ ☐

TX ☐ OK ☐

Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	PHO/DRO by 8015	GRO/DRO by 8015	BTEX by 8023	VOC by 8260	Metals 6010	Chloride 30010	BGDOC - NM	BGDOC - TX	Remarks
1010	1/13	S	1	CS17	1							X		
1011	1/13	S	1	CS18	2							X		
1012	1/13	S	1	CS19	3							X		
1013	1/13	S	1	CS20	4							X		
1014	1/13	S	1	CS21	5							X		
1015	1/13	S	1	CS22	6							X		
1017	1/13	S	1	CS23	7							X		
1016	1/13	S	1	CS24	8							X		
1018	1/13	S	1	CS25	9							X		

Additional Instructions:

Please send to Heather Woods, Sarahmay Schlea, Georgeann Goodman
 (Field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an average above 0 but less than 5 °C or subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	<u>1/13/23</u>	<u>1224</u>	<u>Michelle Cys</u>	<u>1-13-23</u>	<u>1540</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
<u>[Signature]</u>	<u>1-13-23</u>	<u>1700</u>	<u>[Signature]</u>	<u>1-13-23</u>	<u>1850</u>	T1 _____ T2 _____ T3 _____
<u>[Signature]</u>	<u>1-13-23</u>	<u>2400</u>	<u>[Signature]</u>	<u>1-14-23</u>	<u>8:00</u>	AVG Temp °C <u>4</u>

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge A - Aqueous, O - Other
 Note: Samples are discarded 90 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 1/16/2023 10:07:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	01/14/23 08:00	Work Order ID:	E301074
Phone:	(575) 200-5443	Date Logged In:	01/14/23 09:34	Logged In By:	Alexa Michaels
Email:		Due Date:	01/16/23 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project South Eddy Cyro Plant has been separated into 2 reports due to sample volume. Workorders are as follows E301073 & E301074.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



APPENDIX C

Photographic Documentation

Project: South Eddy Cryo (Incident ID# nAPP2233445626)
Entity: Enterprise Field Services, LLC
Project #: 03B1226303



View of historical impact area, facing southwest (07/14/2023).



View of historical impact area, facing northwest (07/14/2023).

Project: South Eddy Cryo (Incident ID# nAPP2233445626)
Entity: Enterprise Field Services, LLC
Project #: 03B1226303



View of historical impact area, facing south (07/14/2023).



View of historical impact area, facing southwest (07/14/2023).



APPENDIX D

Table



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

South Eddy Cryo
Enterprise Field Services, LLC
Eddy County, New Mexico
Ensolum Project No. 03B1226303

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)	Sulfate (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	NE
95 th Upper Tolerance Limit Calculation			NE										6,992
Composite Impact Area Soil Sample Analytical Results													
CS01	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	61.0	<50.0	61.0	628	NS
	08/22/2023	1.5	NS					NS		NS		19	140
CS02	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	28.5	<50.0	28.5	671	NS
	08/22/2023	1.5	NS					NS		NS		10	160
CS03	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	924	NS
	08/22/2023	1.5	NS					NS		NS		48	550
CS04	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	27.6	<50.0	27.6	582	NS
	08/22/2023	1.5	NS					NS		NS		NS	1,000
CS05	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,210	NS
	08/22/2023	1.5	NS					NS		NS		49	750
CS06	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,360	NS
	08/22/2023	1.5	NS					NS		NS		9.2	120
CS07	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	774	NS
	08/22/2023	1.5	NS					NS		NS		50	650
CS08	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	520	NS
	08/22/2023	1.5	NS					NS		NS		NS	350
CS09	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	235	NS
	08/22/2023	1.5	NS					NS		NS		NS	710
CS10	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	361	NS
	08/22/2023	1.5	NS					NS		NS		NS	2,200
CS11	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,350	NS
	08/22/2023	1.5	NS					NS		NS		190	780
CS12	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	295	NS
	08/22/2023	1.5	NS					NS		NS		NS	850
CS13	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	629	NS
	08/22/2023	1.5	NS					NS		NS		340	580
CS14	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	796	NS
	08/22/2023	1.5	NS					NS		NS		27	340
CS15	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	25.5	<50.0	25.5	1,060	NS
	08/22/2023	1.5	NS					NS		NS		27	100
CS16	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	978	NS
	08/22/2023	1.5	NS					NS		NS		52	330
CS17	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	1,140	NS
	08/22/2023	1.5	NS					NS		NS		18	240
CS18	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	1,210	NS
	08/22/2023	1.5	NS					NS		NS		200	1,300
CS19	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	275	NS
	08/22/2023	1.5	NS					NS		NS		NS	460
CS20	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	274	NS
	08/22/2023	1.5	NS					NS		NS		NS	730
CS21	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	1,270	NS
	08/22/2023	1.5	NS					NS		NS		35	230
CS22	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	<45.0	<50.0	<50.0	1,320	NS
	08/22/2023	1.5	NS					NS		NS		70	750
CS23	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	367	1,790	2,157	198	NS
	08/22/2023	1.5	NS					<4.3	35	<46	35	NS	520
CS24	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	143	289	432	930	NS
	08/22/2023	1.5	NS					<4.2	<9.5	<47	<47	51	640
CS25	01/13/2023*	0.5 - 0.75	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	<20.0	233	<50.0	233	49.3	NS
	08/22/2023	1.5	NS					<4.9	18	<46	18	NS	660
Confirmation Background Soil Sample Analytical Results													
BG-1	08/22/2023	1.5	NS					NS		NS		NS	420
Confirmation Delineation Soil Sample Analytical Results													
North	08/22/2023	0.25	<0.022	<0.045	<0.045	<0.090	<0.090	<4.5	<8.9	<44	<44	57	580
East	08/22/2023	0.25	<0.015	<0.031	<0.031	<0.061	<0.061	<3.1	<9.7	<49	<49	1,700	4,900
	09/06/2023	0.25	<0.022	<0.045	<0.045	<0.090	<0.090	<4.5	<9.8	<49	<49	<60	NS
South	08/22/2023	0.25	<0.014	<0.029	<0.029	<0.057	<0.057	<5.0	<8.9	<44	<44	46	380
West	08/22/2023	0.25	<0.017	<0.035	<0.035	<0.070	<0.070	<3.5	<9.5	<47	<47	81	1,600

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

* - Previously sampled by 3rd party consultant

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



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

August 30, 2023

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

RE: South Eddy Cryo

OrderNo.: 2308C96

Dear Kelly Lowery:

Hall Environmental Analysis Laboratory received 30 sample(s) on 8/24/2023 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: CS01

Project: South Eddy Cryo

Collection Date: 8/22/2023 9:45:00 AM

Lab ID: 2308C96-001

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	19	7.5		mg/Kg	5	8/24/2023 1:38:41 PM
Sulfate	140	7.5		mg/Kg	5	8/24/2023 1:38:41 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: CS04

Project: South Eddy Cryo

Collection Date: 8/22/2023 10:00:00 AM

Lab ID: 2308C96-004

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Sulfate	1000	30		mg/Kg	20	8/24/2023 4:20:01 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: CS05

Project: South Eddy Cryo

Collection Date: 8/22/2023 10:05:00 AM

Lab ID: 2308C96-005

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	49	7.5		mg/Kg	5	8/24/2023 4:32:26 PM
Sulfate	750	7.5		mg/Kg	5	8/24/2023 4:32:26 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: CS09

Project: South Eddy Cryo

Collection Date: 8/22/2023 10:25:00 AM

Lab ID: 2308C96-009

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Sulfate	710	30		mg/Kg	20	8/24/2023 6:48:57 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2308C96

Date Reported: 8/30/2023

CLIENT: Ensolum LLC Client Sample ID: CS14
Project: South Eddy Cryo Collection Date: 8/22/2023 10:50:00 AM
Lab ID: 2308C96-014 Matrix: SOIL Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	27	7.5		mg/Kg	5	8/24/2023 9:05:27 PM
Sulfate	340	7.5		mg/Kg	5	8/24/2023 9:05:27 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: CS17

Project: South Eddy Cryo

Collection Date: 8/22/2023 11:05:00 AM

Lab ID: 2308C96-017

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	18	7.5		mg/Kg	5	8/24/2023 10:19:54 PM
Sulfate	240	7.5		mg/Kg	5	8/24/2023 10:19:54 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: CS18

Project: South Eddy Cryo

Collection Date: 8/22/2023 11:10:00 AM

Lab ID: 2308C96-018

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	200	7.5		mg/Kg	5	8/24/2023 11:09:33 PM
Sulfate	1300	30		mg/Kg	20	8/24/2023 11:21:58 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Date Reported: 8/30/2023

Received Date: 8/24/2023 7:25:00 AM

Analyst: **SNS**

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

CLIENT: Ensolum LLC

Client Sample ID: CS23

Project: South Eddy Cryo

Collection Date: 8/22/2023 11:35:00 AM

Lab ID: 2308C96-023

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	35	9.1		mg/Kg	1	8/24/2023 5:36:16 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/24/2023 5:36:16 PM
Surr: DNOP	98.9	69-147		%Rec	1	8/24/2023 5:36:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	8/25/2023 1:32:00 AM
Surr: BFB	96.8	15-244		%Rec	1	8/25/2023 1:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Sulfate	520	7.5		mg/Kg	5	8/25/2023 2:46:30 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2308C96**

Date Reported: 8/30/2023

CLIENT: Ensolum LLC

Client Sample ID: CS24

Project: South Eddy Cryo

Collection Date: 8/22/2023 11:40:00 AM

Lab ID: 2308C96-024

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/24/2023 5:47:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/24/2023 5:47:14 PM
Surr: DNOP	109	69-147		%Rec	1	8/24/2023 5:47:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	8/25/2023 1:53:00 AM
Surr: BFB	96.8	15-244		%Rec	1	8/25/2023 1:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	51	7.5		mg/Kg	5	8/25/2023 3:36:08 AM
Sulfate	640	7.5		mg/Kg	5	8/25/2023 3:36:08 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2308C96

Date Reported: 8/30/2023

CLIENT: Ensolum LLC Client Sample ID: CS25
Project: South Eddy Cryo Collection Date: 8/22/2023 11:45:00 AM
Lab ID: 2308C96-025 Matrix: SOIL Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	18	9.3		mg/Kg	1	8/24/2023 5:58:18 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/24/2023 5:58:18 PM
Surr: DNOP	116	69-147		%Rec	1	8/24/2023 5:58:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/25/2023 11:24:44 AM
Surr: BFB	96.9	15-244		%Rec	1	8/25/2023 11:24:44 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Sulfate	660	7.5		mg/Kg	5	8/25/2023 4:00:57 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2308C96

Date Reported: 8/30/2023

CLIENT: Ensolum LLC Client Sample ID: East
Project: South Eddy Cryo Collection Date: 8/22/2023 12:15:00 PM
Lab ID: 2308C96-028 Matrix: MEOH (SOIL) Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/24/2023 6:20:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/24/2023 6:20:37 PM
Surr: DNOP	106	69-147		%Rec	1	8/24/2023 6:20:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	8/25/2023 2:37:00 AM
Surr: BFB	95.3	15-244		%Rec	1	8/25/2023 2:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.015		mg/Kg	1	8/25/2023 2:37:00 AM
Toluene	ND	0.031		mg/Kg	1	8/25/2023 2:37:00 AM
Ethylbenzene	ND	0.031		mg/Kg	1	8/25/2023 2:37:00 AM
Xylenes, Total	ND	0.061		mg/Kg	1	8/25/2023 2:37:00 AM
Surr: 4-Bromofluorobenzene	92.0	39.1-146		%Rec	1	8/25/2023 2:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1700	75		mg/Kg	50	8/25/2023 9:27:38 PM
Sulfate	4900	75		mg/Kg	50	8/25/2023 9:27:38 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2308C96

Date Reported: 8/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: West

Project: South Eddy Cryo

Collection Date: 8/22/2023 12:05:00 PM

Lab ID: 2308C96-029

Matrix: MEOH (SOIL)

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/25/2023 11:02:22 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/25/2023 11:02:22 AM
Surr: DNOP	92.8	69-147		%Rec	1	8/25/2023 11:02:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/25/2023 2:59:00 AM
Surr: BFB	94.4	15-244		%Rec	1	8/25/2023 2:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	8/25/2023 2:59:00 AM
Toluene	ND	0.035		mg/Kg	1	8/25/2023 2:59:00 AM
Ethylbenzene	ND	0.035		mg/Kg	1	8/25/2023 2:59:00 AM
Xylenes, Total	ND	0.070		mg/Kg	1	8/25/2023 2:59:00 AM
Surr: 4-Bromofluorobenzene	90.6	39.1-146		%Rec	1	8/25/2023 2:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	81	7.5		mg/Kg	5	8/25/2023 12:48:50 AM
Sulfate	1600	30		mg/Kg	20	8/25/2023 1:01:14 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2308C96

Date Reported: 8/30/2023

CLIENT: Ensolum LLC Client Sample ID: South
Project: South Eddy Cryo Collection Date: 8/22/2023 12:10:00 PM
Lab ID: 2308C96-030 Matrix: MEOH (SOIL) Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/24/2023 6:43:01 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/24/2023 6:43:01 PM
Surr: DNOP	105	69-147		%Rec	1	8/24/2023 6:43:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/25/2023 3:42:00 AM
Surr: BFB	95.9	15-244		%Rec	1	8/25/2023 3:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.014		mg/Kg	1	8/25/2023 3:42:00 AM
Toluene	ND	0.029		mg/Kg	1	8/25/2023 3:42:00 AM
Ethylbenzene	ND	0.029		mg/Kg	1	8/25/2023 3:42:00 AM
Xylenes, Total	ND	0.057		mg/Kg	1	8/25/2023 3:42:00 AM
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	8/25/2023 3:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	46	7.5		mg/Kg	5	8/25/2023 1:38:29 AM
Sulfate	380	7.5		mg/Kg	5	8/25/2023 1:38:29 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 Quantitative 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#: 2308C96

30-Aug-23

Client: Ensolum LLC

Project: South Eddy Cryo

Sample ID: MB-77075	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 77075	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618404 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5
Sulfate	ND	1.5

Sample ID: LCS-77075	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 77075	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618405 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.8 90 110
Sulfate	29	1.5 30.00 0 96.8 90 110

Sample ID: 2308C96-001AMS	SampType: MS	TestCode: EPA Method 300.0: Anions
Client ID: CS01	Batch ID: 77075	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618407 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	32	7.5 15.00 19.05 87.0 50 150
Sulfate	160	7.5 30.00 136.1 76.3 50 150

Sample ID: 2308C96-001AMSD	SampType: MSD	TestCode: EPA Method 300.0: Anions
Client ID: CS01	Batch ID: 77075	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618408 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	36	7.5 15.00 19.05 113 50 150 11.5 20
Sulfate	180	7.5 30.00 136.1 144 50 150 12.1 20

Sample ID: 2308C96-002AMS	SampType: MS	TestCode: EPA Method 300.0: Anions
Client ID: CS02	Batch ID: 77075	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618411 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	28	7.5 15.00 9.956 123 50 150

Sample ID: 2308C96-002AMSD	SampType: MSD	TestCode: EPA Method 300.0: Anions
Client ID: CS02	Batch ID: 77075	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618412 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	44	7.5 15.00 9.956 224 50 150 42.2 20 RS

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 Quantitative 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#: 2308C96
30-Aug-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: MB-77090	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 77090	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/25/2023	SeqNo: 3618458 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5
Sulfate	ND	1.5

Sample ID: LCS-77090	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 77090	RunNo: 99227
Prep Date: 8/24/2023	Analysis Date: 8/25/2023	SeqNo: 3618459 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.3 90 110
Sulfate	29	1.5 30.00 0 96.3 90 110

Sample ID: MB-77090	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 77090	RunNo: 99222
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618946 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5
Sulfate	ND	1.5

Sample ID: LCS-77090	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 77090	RunNo: 99222
Prep Date: 8/24/2023	Analysis Date: 8/24/2023	SeqNo: 3618947 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 97.4 90 110
Sulfate	30	1.5 30.00 0 99.7 90 110

Sample ID: 2308C96-021AMS	SampType: MS	TestCode: EPA Method 300.0: Anions
Client ID: CS21	Batch ID: 77090	RunNo: 99222
Prep Date: 8/24/2023	Analysis Date: 8/25/2023	SeqNo: 3618956 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	38	7.5 15.00 35.14 17.0 50 150 S

Sample ID: 2308C96-021AMSD	SampType: MSD	TestCode: EPA Method 300.0: Anions
Client ID: CS21	Batch ID: 77090	RunNo: 99222
Prep Date: 8/24/2023	Analysis Date: 8/25/2023	SeqNo: 3618957 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	50	7.5 15.00 35.14 97.7 50 150 27.7 20 R

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 Quantitative 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308C96
30-Aug-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: 2308C96-022AMS		SampType: MS		TestCode: EPA Method 300.0: Anions						
Client ID: CS22		Batch ID: 77090		RunNo: 99222						
Prep Date: 8/24/2023		Analysis Date: 8/25/2023		SeqNo: 3618960		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	86	7.5	15.00	70.00	107	50	150			

Sample ID: 2308C96-022AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions						
Client ID: CS22		Batch ID: 77090		RunNo: 99222						
Prep Date: 8/24/2023		Analysis Date: 8/25/2023		SeqNo: 3618961		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	86	7.5	15.00	70.00	105	50	150	0.206	20	

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 Quantitative 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308C96

30-Aug-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: MB-77052	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 77052		RunNo: 99199							
Prep Date: 8/23/2023	Analysis Date: 8/24/2023		SeqNo: 3617393		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.8	69	147			

Sample ID: LCS-77052	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 77052		RunNo: 99199							
Prep Date: 8/23/2023	Analysis Date: 8/24/2023		SeqNo: 3617395		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.2	69	147			

Sample ID: MB-77076	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 77076		RunNo: 99199							
Prep Date: 8/24/2023	Analysis Date: 8/24/2023		SeqNo: 3617818		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	9.2		10.00		92.4	69	147			

Sample ID: LCS-77076	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 77076		RunNo: 99199							
Prep Date: 8/24/2023	Analysis Date: 8/24/2023		SeqNo: 3617821		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	61.9	130			
Surr: DNOP	4.8		5.000		95.0	69	147			

Sample ID: 2308C96-030AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: South	Batch ID: 77076		RunNo: 99199							
Prep Date: 8/24/2023	Analysis Date: 8/24/2023		SeqNo: 3617893		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	8.7	43.71	0	104	54.2	135			
Surr: DNOP	5.0		4.371		114	69	147			

Sample ID: 2308C96-030AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: South	Batch ID: 77076		RunNo: 99199							
Prep Date: 8/24/2023	Analysis Date: 8/24/2023		SeqNo: 3617895		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	8.8	44.13	0	101	54.2	135	1.75	29.2	

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 Quantitative 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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308C96

30-Aug-23

Client: Ensolum LLC

Project: South Eddy Cryo

Sample ID: 2308C96-030AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: South		Batch ID: 77076		RunNo: 99199						
Prep Date: 8/24/2023		Analysis Date: 8/24/2023		SeqNo: 3617895			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		4.413		103	69	147	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 Quantitative 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#: 2308C96
30-Aug-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: 2.5ug gro lcs 2	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G99229		RunNo: 99229							
Prep Date:	Analysis Date: 8/24/2023		SeqNo: 3618726		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	86.8	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: mb 2	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G99229		RunNo: 99229							
Prep Date:	Analysis Date: 8/24/2023		SeqNo: 3618727		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	1000		1000		102	15	244			

Sample ID: lcs-77074	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 77074		RunNo: 99233							
Prep Date: 8/24/2023	Analysis Date: 8/25/2023		SeqNo: 3618989		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	89.1	70	130			
Surr: BFB	1800		1000		184	15	244			

Sample ID: mb-77074	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 77074		RunNo: 99233							
Prep Date: 8/24/2023	Analysis Date: 8/25/2023		SeqNo: 3618990		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		92.3	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 Quantitative 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#: 2308C96

30-Aug-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: B99229		RunNo: 99229							
Prep Date:	Analysis Date: 8/24/2023		SeqNo: 3618770		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	103	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Ethylbenzene	1.1	0.050	1.000	0	106	70	130			
Xylenes, Total	3.2	0.10	3.000	0	107	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	39.1	146			

Sample ID: mb 2	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: B99229		RunNo: 99229							
Prep Date:	Analysis Date: 8/24/2023		SeqNo: 3618771		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: LCS-77074	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 77074		RunNo: 99233							
Prep Date: 8/24/2023	Analysis Date: 8/25/2023		SeqNo: 3618992		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: mb-77074	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 77074		RunNo: 99233							
Prep Date: 8/24/2023	Analysis Date: 8/25/2023		SeqNo: 3618993		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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 Quantitative 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

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

Sample Log-In Check List

Client Name: Ensolum LLC

Work Order Number: 2308C96

RcptNo: 1

Received By: Tracy Casarrubias 8/24/2023 7:25:00 AM

Completed By: Tracy Casarrubias 8/24/2023 8:09:30 AM

Reviewed By: *[Signature]* 8-24-23

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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)
- # of preserved bottles checked for pH: Adjusted? (<2 or >12 unless noted)
- Checked by: YUS/24/23

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	5.3	Good	Yes	Yogi		
2	5.9	Good	Yes	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 hrs

Project Name: South Edley Cyo

Project #: 03B1226303

Project Manager: Kelly Lowery

Sampler: TNG/LN

On Ice: ☒ Yes ☐ No


of Coolers: 2

Cooler Temp (including cp): See Checklist

Date	Time	Matrix	Sample Name	Depth	Container Type and #	Preservative Type	HEAL No.
8/22/23	1045	S	CS13	1.5'	4021	1CE	2308096
8/22/23	1050	S	CS14	1.5'	4021	1CE	013
8/22/23	1055	S	CS15	1.5'	4021	1CE	014
8/22/23	1100	S	CS16	1.5'	4021	1CE	015
8/22/23	1105	S	CS17	1.5'	4021	1CE	016
8/22/23	1110	S	CS18	1.5'	4021	1CE	017
8/22/23	1115	S	CS19	1.5'	4021	1CE	018
8/22/23	1120	S	CS20	1.5'	4021	1CE	019
8/22/23	1125	S	CS21	1.5'	4021	1CE	020
8/22/23	1130	S	CS22	1.5'	4021	1CE	021
8/22/23	1135	S	CS23	1.5'	4021	1CE	022
8/22/23	1140	S	CS24	1.5'	4021	1CE	023

Date: 8/22/23 Time: 1044 Relinquished by: TNG

Date: 8/23/23 Time: 7:23 Relinquished by: [Signature]



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

Analysis Request									
BTEX / MTBE / TMBs (6021)	TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides/0082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA-8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VGA)	8270 (Semi-VGA)	Total Coliform (Present/Absent)
									Sulfate 300.0
									Chlorides 300.0

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

Paykey/AFE/NonAFE: N63481

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



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

September 12, 2023

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

RE: South Eddy Cryo

OrderNo.: 2309272

Dear Kelly Lowery:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/7/2023 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2309272

Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: East

Project: South Eddy Cryo

Collection Date: 9/6/2023 1:40:00 PM

Lab ID: 2309272-001

Matrix: MEOH (SOIL)

Received Date: 9/7/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/7/2023 9:18:07 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/7/2023 9:18:07 PM
Surr: DNOP	103	69-147		%Rec	1	9/7/2023 9:18:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	9/7/2023 12:33:00 PM
Surr: BFB	100	15-244		%Rec	1	9/7/2023 12:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.022		mg/Kg	1	9/7/2023 12:33:00 PM
Toluene	ND	0.045		mg/Kg	1	9/7/2023 12:33:00 PM
Ethylbenzene	ND	0.045		mg/Kg	1	9/7/2023 12:33:00 PM
Xylenes, Total	ND	0.090		mg/Kg	1	9/7/2023 12:33:00 PM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	9/7/2023 12:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	9/7/2023 8:44:54 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309272
12-Sep-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: MB-77361	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 77361	RunNo: 99536
Prep Date: 9/7/2023	Analysis Date: 9/7/2023	SeqNo: 3634768 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-77361	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 77361	RunNo: 99536
Prep Date: 9/7/2023	Analysis Date: 9/7/2023	SeqNo: 3634769 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.8 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 Quantitative 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

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309272

12-Sep-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: LCS-77349	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 77349	RunNo: 99538								
Prep Date: 9/7/2023	Analysis Date: 9/7/2023	SeqNo: 3634982	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	91.6	61.9	130			
Surr: DNOP	4.5		5.000		90.4	69	147			

Sample ID: MB-77349	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 77349	RunNo: 99538								
Prep Date: 9/7/2023	Analysis Date: 9/7/2023	SeqNo: 3634985	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		93.7	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 Quantitative 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#: 2309272

12-Sep-23

Client: Ensolum LLC

Project: South Eddy Cryo

Sample ID: 2.5ug gro lcs		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS		Batch ID: R99508		RunNo: 99508						
Prep Date:		Analysis Date: 9/7/2023		SeqNo: 3632992		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	96.0	70	130			
Surr: BFB	2200		1000		215	15	244			

Sample ID: mb		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS		Batch ID: R99508		RunNo: 99508						
Prep Date:		Analysis Date: 9/7/2023		SeqNo: 3632993		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	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 Quantitative 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

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309272
12-Sep-23

Client: Ensolum LLC
Project: South Eddy Cryo

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B99508			RunNo: 99508						
Prep Date:	Analysis Date: 9/7/2023			SeqNo: 3632987		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	70	130			
Toluene	0.89	0.050	1.000	0	89.1	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.7	70	130			
Xylenes, Total	2.8	0.10	3.000	0	91.8	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	39.1	146			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B99508			RunNo: 99508						
Prep Date:	Analysis Date: 9/7/2023			SeqNo: 3632988		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		96.8	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 Quantitative 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



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

Sample Log-In Check List

Client Name: Ensolum LLC

Work Order Number: 2309272

RcptNo: 1

Received By: Juan Rojas 9/7/2023 7:30:00 AM

Completed By: Tracy Casarrubias 9/7/2023 8:11:31 AM

Reviewed By: *ma* 9/7/23

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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *yu 9/7/23*

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	4.5	Good	Yes	Yogi		

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 314127

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2233445626
Incident Name	NAPP2233445626 SOUTH EDDY CRYO @ 0
Incident Type	Release Other
Incident Status	Deferral Request Received
Incident Facility	[fAPP2122928745] Enterprise Carlsbad GS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SOUTH EDDY CRYO
Date Release Discovered	11/30/2022
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Overflow - Tank, Pit, Etc. Gas Plant Chemical (Specify) Released: 8 BBL Recovered: 4 BBL Lost: 4 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A failed pump caused a sump to overflow 8 bbl of amine. No offsite impacts.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 314127

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be 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: Robert Dunaway Title: Environmental Manager Email: rdunaway@eprod.com Date: 02/14/2024
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 314127

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 200 and 300 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	1360
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2157
GRO+DRO (EPA SW-846 Method 8015M)	367
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	01/13/2023
On what date will (or did) the final sampling or liner inspection occur	09/06/2023
On what date will (or was) the remediation complete(d)	
What is the estimated surface area (in square feet) that will be reclaimed	5707
What is the estimated volume (in cubic yards) that will be reclaimed	8560
What is the estimated surface area (in square feet) that will be remediated	5707
What is the estimated volume (in cubic yards) that will be remediated	8560
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 314127

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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>	
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: Robert Dunaway Title: Environmental Manager Email: rhodunaway@eprod.com Date: 03/04/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 314127

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Per Enterprise's safety procedures regarding the restriction to utilize heavy equipment/machinery inside a facility due to risks to human health and safety which prohibits the further excavation of soil remaining in place, a deferral request for remediation is required in these areas.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	5707
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	8560
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Enterprise Carlsbad GS [fAPP2122928745]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>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>	
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: Robert Dunaway Title: Environmental Manager Email: rdunaway@eprod.com Date: 03/04/2024

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QUESTIONS, Page 6

Action 314127

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 314127

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 314127
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Enterprise's deferral requests final remediation for (Incident Number NAPP2233445626) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and Enterprise do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area in orange on Figure 3, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record. The release will remain open in OCD database files and reflect an open environmental issue.	3/7/2025