

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-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*
Type of action: ☐ Permit ☐ Registration
☐ Modification ☐ Extension
☒ Closure ☒ Other (explain) Closure

* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Enduring Resources, LLC (For multiple operators attach page with information) OGRID #: 372286
Address: 200 Energy Court, Farmington, New Mexico 87401
Facility or well name (include API# if associated with a well): Haynes Canyon Unit 432H
OCD Permit Number: 3RF-71 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr E Section 3 Township 23N Range 6W County: Rio Arriba
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 36.256109 Longitude -107.464804 NAD83
Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☐ Plugging*
**The re-use of produced water may NOT be used until fresh water zones are cased and cemented*
☐ Other, *requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.*
☒ Fluid Storage
☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type _____
☐ Activity permitted under 19.15.36 NMAC explain type: _____ ☐ Other explain _____
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ **Closure Report (required within 60 days of closure completion):** ☒ Recycling Facility Closure Completion Date: 8/27/24

3.

☒ **Recycling Containment:**
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 36.256109 Longitude -107.464804 NAD83
☒ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 40 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☒ String-Reinforced
Liner Seams: ☒ Welded ☒ Factory ☐ Other _____ Volume: 180,000 bbl Dimensions: Radius 95' x Height 12'
☐ Recycling Containment Closure Completion Date: _____

4.

Bonding:

- ☒ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)
- ☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ _____ (work on these facilities cannot commence until bonding amounts are approved)
- ☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

Fencing:

- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify See variance request _____

6.

Signs:

- ☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.16.8 NMAC

7.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

- ☒ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

8.

Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting**Ground water is less than 50 feet below the bottom of the Recycling Containment.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

☐ Yes ☒ No
☐ NA

- Written confirmation or verification from the municipality; written approval obtained from the municipality

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

Within a 100-year floodplain. FEMA map

☐ Yes ☒ No

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

☐ Yes ☒ No

- Topographic map; visual inspection (certification) of the proposed site

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

9.

Recycling Facility and/or Containment Checklist:**Instructions:** Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements.
☐ Operating and Maintenance Plan - based upon the appropriate requirements.
☒ Closure Plan - based upon the appropriate requirements.
☐ Site Specific Groundwater Data – **Exhibit C**
☐ Siting Criteria Compliance Demonstrations –
☐ **Certify that notice of the C-147 (only) has been sent to the surface owner(s) Exhibit F**

10.

Operator Application Certification:

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Heather Huntington Title: Permitting TechnicianSignature: Heather Huntington Date: 4/1/25e-mail address: hhuntington@enduringresources.com Telephone: 505-636-9751

11.

OCD Representative Signature: Victoria Venegas Approval Date: 04/03/2025Title: Environmental Specialist OCD Permit Number: 3RF-71

- ☐ OCD Conditions
☐ Additional OCD Conditions on Attachment

Closure Documentation

**Haynes Canyon 432H AST Facility
3RF-71 fVV2410736869**



**Enduring Resources, LLC
200 Energy Court
Farmington, New Mexico 87401**

1. **Upon cessation of operations (Defined as the use of less than 20% of the pond's total fluid capacity), Enduring will remove all fluids within 60 days of the official date of cessation.**
The final date of use was August 27, 2024. All fluids were removed from the containment on August 27, 2024.
2. **Enduring will close the produced water containment within six (6) months from the official date of cessation. If Enduring will require more than 6 months to complete closure activities, an extension request will be filed prior to the six (6) month time limit for closure.**
The containment was disassembled August 27, 2024 and closure sampling was conducted on March 4, 2025.
3. **Closure activities will consist of the following:**
 - a. **Removal of all containment contents**
All containments were removed on August 27, 2024.
 - b. **Removal of liners and associated leak detection equipment for disposal at a division approved facility.**
All liner and leak detection materials were removed and disposed of at Bondad Landfill.
 - c. **Removal of all equipment associated with the continued operation of the recycling containment.**
All equipment associated with the continued operation of the recycling containment has been removed from the site.
 - d. **A 5-point composite soil sample will be collected in the containment area under the location of the liner, and the sample will be analyzed for the constituents listed in Table I.**
See attached sampling closure report. Samples are compliant with Table 1.
4. **Reclamation**
The location will be interim reclaimed in accordance with the reclamation plan attached to the approved APD associated with the Haynes Canyon 432H, 424H, 463H, and 438H upon the completion of the drilling and completion operations.



March 27, 2025

New Mexico Oil Conservation Division

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

District III
1000 Rio Brazos Road
Aztec, NM 87410

**Re: Tank Closure Request
Haynes Canyon Unit 432H AST Pad
Facility ID fVV2410736869
Rio Arriba County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Enduring Resources (Enduring), has prepared this *Closure Request* to document soil sampling activities performed after tank removal at the Haynes Canyon Unit 432H AST Pad (Site) in Rio Arriba County, New Mexico. The purpose of the site assessment and soil sampling activities were to address impacts to soil upon removal of the Recycling Containment and Recycling Facility on the Site. This work was conducted in accordance with the C-147 Registration Package, *Haynes Canyon Unit 432H, March 2024*, approved by the New Mexico Oil Conservation Division (NMOCD) on April 16, 2024. Based on the analytical results from the soil sampling events, Enduring is submitting this *Closure Request* for this facility.

SITE DESCRIPTION

The Site is located in Unit E, Section 3, Township 23 North, Range 6 West, in Rio Arriba County, New Mexico (36.256109° N, -107.464804° W) and is associated with oil and gas exploration and production operations on federal land. The Site location is shown on Figure 1.

The Site formerly consisted of three above ground storage tanks (AST) of 60,000 barrels (BBL) each. Upon closure all fluids were removed from the facility within 60 days of the date that operations ceased, and the containments were closed from use within six months from the date that Enduring ceased operation. Enduring removed all fluids, contents, synthetic liners, and leak detection piping and transferred these materials to a NMOCD- approved facility for disposal. All other equipment associated with the recycling containment and recycling facility were removed from the Site.

CLOSURE CRITERIA

Based on the approved recycling containment permit (permit number 3RF-71), the following Table I Closure Criteria for Recycling Containments apply per Title 19, Chapter 15, Part 34, Section 14 (19.15.34.14) of the New Mexico Administrative Code (NMAC).

- Benzene: 10 milligrams per kilogram (mg/kg)

Enduring Resources
C-147 Closure Request
Haynes Canyon Unit 432H AST Pad

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO) and TPH diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On March 4, 2025, Ensolum personnel were at the Site to sample following the removal of the AST containments. Ensolum collected three 5-point composite soil samples (NW Tank, NE Tank, and SE Tank) from the ground below where the tanks were previously located. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil sample locations are presented in Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Environmental Testing Laboratories in Albuquerque, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for all confirmation soil samples indicated that all COCs were compliant with the Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 1.

If you have any questions or comments, please contact us at (303) 601-1420 (dburns@ensolum.com) or (720) 989-6175 (tdembrowski@ensolum.com).

Sincerely,
Ensolum, LLC



Tracy Dembrowski
Project Geologist



Danny Burns
Senior Geologist

cc: Bureau of Land Management

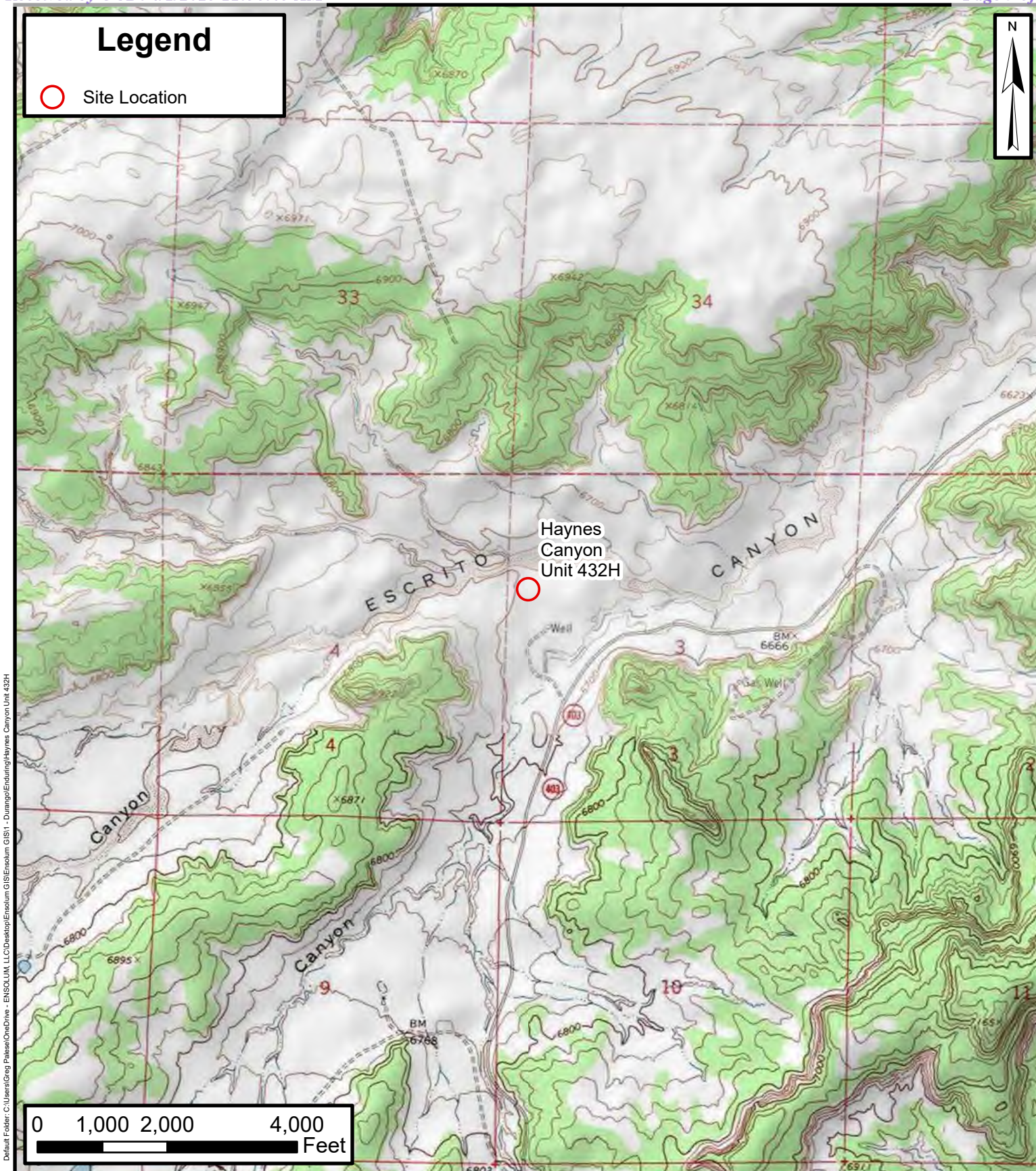
Attachments:

Figure 1 Site Location Map
Figure 2 Soil Sample Location Map
Table 1 Soil Sample Analytical Results

Attachment 1 Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES

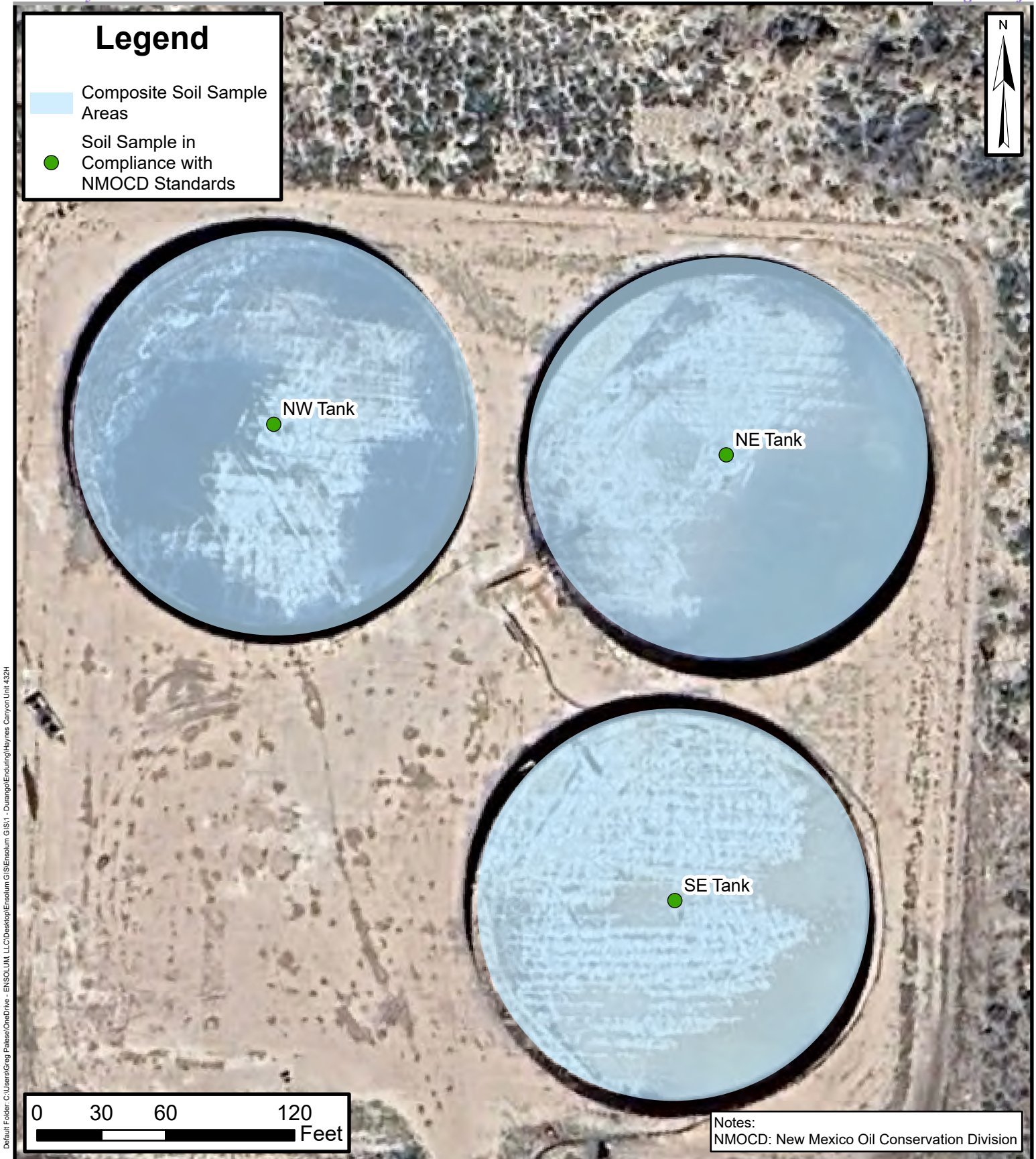


Site Location Map

Haynes Canyon Unit 432H
Enduring Resources, LLC

36.256109, -107.464804
Rio Arriba County, New Mexico

FIGURE
1



Soil Sample Location Map

Haynes Canyon Unit 432H
Enduring Resources, LLC

36.256109, -107.464804
Rio Arriba County, New Mexico

FIGURE
2



TABLE



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
HAYNES CANYON 432H WRF
Enduring Resources, LLC
Rio Arriba County, New Mexico

Sample Identification	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
SE Tank	3/4/2025	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<9.6	<48.0	460
NE Tank	3/4/2025	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<49	<9.7	<49.0	<60
NW Tank	3/4/2025	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<10	<50	<10	<50.0	<60

Notes:

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics
mg/kg: Milligrams per kilogram DRO: Diesel Range Organics
NE: Not Established MRO: Motor Oil/Lube Oil Range Organics
NMOCD: New Mexico Oil Conservation Division TPH: Total Petroleum Hydrocarbon
<: Indicates result less than the stated laboratory reporting limit (RL)



ATTACHMENT

Laboratory Analytical Reports and Chain of
Custody Documentation



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Danny Burns
Ensolum LLC
776 E 2nd Avenue
Durango, Colorado 81301
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JOB DESCRIPTION

Hayes Canyon

JOB NUMBER

885-20991-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Catherine Upton, Project Manager
Catherine.upton@et.eurofinsus.com
(505)345-3975

Client: Ensolum LLC
Project/Site: Hayes Canyon

Laboratory Job ID: 885-20991-1

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Definitions/Glossary

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum LLC
Project: Hayes Canyon

Job ID: 885-20991-1

Job ID: 885-20991-1

Eurofins Albuquerque

Job Narrative
885-20991-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/6/2025 6:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-22086 and analytical batch 885-22177 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Client Sample ID: SE Tank

Lab Sample ID: 885-20991-1

Date Collected: 03/04/25 11:30

Matrix: Solid

Date Received: 03/06/25 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/06/25 16:36	03/07/25 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166			03/06/25 16:36	03/07/25 22:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/06/25 16:36	03/07/25 22:22	1
Ethylbenzene	ND		0.049	mg/Kg		03/06/25 16:36	03/07/25 22:22	1
Toluene	ND		0.049	mg/Kg		03/06/25 16:36	03/07/25 22:22	1
Xylenes, Total	ND		0.098	mg/Kg		03/06/25 16:36	03/07/25 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			03/06/25 16:36	03/07/25 22:22	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.6	mg/Kg		03/07/25 14:09	03/10/25 15:34	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/07/25 14:09	03/10/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			03/07/25 14:09	03/10/25 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		59	mg/Kg		03/06/25 09:48	03/07/25 12:46	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Client Sample ID: NE Tank

Lab Sample ID: 885-20991-2

Date Collected: 03/04/25 11:40

Matrix: Solid

Date Received: 03/06/25 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/06/25 16:36	03/07/25 23:34	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		35 - 166			03/06/25 16:36	03/07/25 23:34	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/06/25 16:36	03/07/25 23:34	1	
Ethylbenzene	ND		0.047	mg/Kg		03/06/25 16:36	03/07/25 23:34	1	
Toluene	ND		0.047	mg/Kg		03/06/25 16:36	03/07/25 23:34	1	
Xylenes, Total	ND		0.095	mg/Kg		03/06/25 16:36	03/07/25 23:34	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		48 - 145			03/06/25 16:36	03/07/25 23:34	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND	*+	9.7	mg/Kg		03/07/25 14:09	03/10/25 15:44	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/07/25 14:09	03/10/25 15:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	116		62 - 134			03/07/25 14:09	03/10/25 15:44	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		03/06/25 09:48	03/07/25 12:56	20	

Client Sample Results

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Client Sample ID: NW Tank

Lab Sample ID: 885-20991-3

Date Collected: 03/04/25 11:50

Matrix: Solid

Date Received: 03/06/25 06:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		03/06/25 16:36	03/07/25 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			03/06/25 16:36	03/07/25 23:58	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		03/06/25 16:36	03/07/25 23:58	1
Ethylbenzene	ND		0.046	mg/Kg		03/06/25 16:36	03/07/25 23:58	1
Toluene	ND		0.046	mg/Kg		03/06/25 16:36	03/07/25 23:58	1
Xylenes, Total	ND		0.092	mg/Kg		03/06/25 16:36	03/07/25 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			03/06/25 16:36	03/07/25 23:58	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	10	mg/Kg		03/07/25 14:09	03/10/25 15:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/07/25 14:09	03/10/25 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			03/07/25 14:09	03/10/25 15:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		03/06/25 09:48	03/07/25 13:06	20

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-22024/1-A

Matrix: Solid

Analysis Batch: 22114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22024

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/06/25 16:36	03/07/25 21:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			03/06/25 16:36	03/07/25 21:58	1

Lab Sample ID: LCS 885-22024/2-A

Matrix: Solid

Analysis Batch: 22114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	26.9		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	198		35 - 166				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-22024/1-A

Matrix: Solid

Analysis Batch: 22115

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22024

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/06/25 16:36	03/07/25 21:58	1
Ethylbenzene	ND		0.050	mg/Kg		03/06/25 16:36	03/07/25 21:58	1
Toluene	ND		0.050	mg/Kg		03/06/25 16:36	03/07/25 21:58	1
Xylenes, Total	ND		0.10	mg/Kg		03/06/25 16:36	03/07/25 21:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			03/06/25 16:36	03/07/25 21:58	1

Lab Sample ID: LCS 885-22024/3-A

Matrix: Solid

Analysis Batch: 22115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.981		mg/Kg		98	70 - 130
Ethylbenzene	1.00	0.992		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	2.00	1.96		mg/Kg		98	70 - 130
o-Xylene	1.00	0.985		mg/Kg		98	70 - 130
Toluene	1.00	0.991		mg/Kg		99	70 - 130
Xylenes, Total	3.00	2.94		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		48 - 145				

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-20991-1 MS

Matrix: Solid

Analysis Batch: 22115

Client Sample ID: SE Tank

Prep Type: Total/NA

Prep Batch: 22024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.974	1.09		mg/Kg		111	70 - 130
Ethylbenzene	ND		0.974	1.07		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	ND		1.95	2.05		mg/Kg		105	70 - 130
o-Xylene	ND		0.974	1.07		mg/Kg		110	70 - 130
Toluene	ND		0.974	1.01		mg/Kg		104	70 - 130
Xylenes, Total	ND		2.92	3.13		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		48 - 145						

Lab Sample ID: 885-20991-1 MSD

Matrix: Solid

Analysis Batch: 22115

Client Sample ID: SE Tank

Prep Type: Total/NA

Prep Batch: 22024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.970	1.03		mg/Kg		106	70 - 130	5	20
Ethylbenzene	ND		0.970	1.04		mg/Kg		107	70 - 130	3	20
m-Xylene & p-Xylene	ND		1.94	2.09		mg/Kg		108	70 - 130	2	20
o-Xylene	ND		0.970	1.04		mg/Kg		107	70 - 130	3	20
Toluene	ND		0.970	1.04		mg/Kg		107	70 - 130	3	20
Xylenes, Total	ND		2.91	3.13		mg/Kg		107	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		48 - 145								

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-22086/1-A

Matrix: Solid

Analysis Batch: 22177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22086

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		03/07/25 14:09	03/10/25 15:12	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/07/25 14:09	03/10/25 15:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Di-n-octyl phthalate (Surr)	112		62 - 134	03/07/25 14:09	03/10/25 15:12	1		

Lab Sample ID: LCS 885-22086/2-A

Matrix: Solid

Analysis Batch: 22177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	81.4	*+	mg/Kg		163	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	104		62 - 134				

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-21986/1-A

Matrix: Solid

Analysis Batch: 22033

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21986

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		03/06/25 09:48	03/07/25 12:16	1

Lab Sample ID: LCS 885-21986/2-A

Matrix: Solid

Analysis Batch: 22033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.4		mg/Kg		98	90 - 110

Lab Sample ID: MRL 885-22033/3

Matrix: Solid

Analysis Batch: 22033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.527		mg/L		105	50 - 150

QC Association Summary

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

GC VOA

Prep Batch: 22024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	5030C	
885-20991-2	NE Tank	Total/NA	Solid	5030C	
885-20991-3	NW Tank	Total/NA	Solid	5030C	
MB 885-22024/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-22024/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-22024/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-20991-1 MS	SE Tank	Total/NA	Solid	5030C	
885-20991-1 MSD	SE Tank	Total/NA	Solid	5030C	

Analysis Batch: 22114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	8015D	22024
885-20991-2	NE Tank	Total/NA	Solid	8015D	22024
885-20991-3	NW Tank	Total/NA	Solid	8015D	22024
MB 885-22024/1-A	Method Blank	Total/NA	Solid	8015D	22024
LCS 885-22024/2-A	Lab Control Sample	Total/NA	Solid	8015D	22024

Analysis Batch: 22115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	8021B	22024
885-20991-2	NE Tank	Total/NA	Solid	8021B	22024
885-20991-3	NW Tank	Total/NA	Solid	8021B	22024
MB 885-22024/1-A	Method Blank	Total/NA	Solid	8021B	22024
LCS 885-22024/3-A	Lab Control Sample	Total/NA	Solid	8021B	22024
885-20991-1 MS	SE Tank	Total/NA	Solid	8021B	22024
885-20991-1 MSD	SE Tank	Total/NA	Solid	8021B	22024

GC Semi VOA

Prep Batch: 22086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	SHAKE	
885-20991-2	NE Tank	Total/NA	Solid	SHAKE	
885-20991-3	NW Tank	Total/NA	Solid	SHAKE	
MB 885-22086/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-22086/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 22177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	8015D	22086
885-20991-2	NE Tank	Total/NA	Solid	8015D	22086
885-20991-3	NW Tank	Total/NA	Solid	8015D	22086
MB 885-22086/1-A	Method Blank	Total/NA	Solid	8015D	22086
LCS 885-22086/2-A	Lab Control Sample	Total/NA	Solid	8015D	22086

HPLC/IC

Prep Batch: 21986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	300_Prep	
885-20991-2	NE Tank	Total/NA	Solid	300_Prep	
885-20991-3	NW Tank	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

HPLC/IC (Continued)

Prep Batch: 21986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-21986/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-21986/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 22033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20991-1	SE Tank	Total/NA	Solid	300.0	21986
885-20991-2	NE Tank	Total/NA	Solid	300.0	21986
885-20991-3	NW Tank	Total/NA	Solid	300.0	21986
MB 885-21986/1-A	Method Blank	Total/NA	Solid	300.0	21986
LCS 885-21986/2-A	Lab Control Sample	Total/NA	Solid	300.0	21986
MRL 885-22033/3	Lab Control Sample	Total/NA	Solid	300.0	

Lab Chronicle

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Client Sample ID: SE Tank
Date Collected: 03/04/25 11:30
Date Received: 03/06/25 06:50

Lab Sample ID: 885-20991-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22024	JP	EET ALB	03/06/25 16:36
Total/NA	Analysis	8015D		1	22114	JP	EET ALB	03/07/25 22:22
Total/NA	Prep	5030C			22024	JP	EET ALB	03/06/25 16:36
Total/NA	Analysis	8021B		1	22115	JP	EET ALB	03/07/25 22:22
Total/NA	Prep	SHAKE			22086	MI	EET ALB	03/07/25 14:09
Total/NA	Analysis	8015D		1	22177	EM	EET ALB	03/10/25 15:34
Total/NA	Prep	300_Prep			21986	DL	EET ALB	03/06/25 09:48
Total/NA	Analysis	300.0		20	22033	DL	EET ALB	03/07/25 12:46

Client Sample ID: NE Tank
Date Collected: 03/04/25 11:40
Date Received: 03/06/25 06:50

Lab Sample ID: 885-20991-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22024	JP	EET ALB	03/06/25 16:36
Total/NA	Analysis	8015D		1	22114	JP	EET ALB	03/07/25 23:34
Total/NA	Prep	5030C			22024	JP	EET ALB	03/06/25 16:36
Total/NA	Analysis	8021B		1	22115	JP	EET ALB	03/07/25 23:34
Total/NA	Prep	SHAKE			22086	MI	EET ALB	03/07/25 14:09
Total/NA	Analysis	8015D		1	22177	EM	EET ALB	03/10/25 15:44
Total/NA	Prep	300_Prep			21986	DL	EET ALB	03/06/25 09:48
Total/NA	Analysis	300.0		20	22033	DL	EET ALB	03/07/25 12:56

Client Sample ID: NW Tank
Date Collected: 03/04/25 11:50
Date Received: 03/06/25 06:50

Lab Sample ID: 885-20991-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			22024	JP	EET ALB	03/06/25 16:36
Total/NA	Analysis	8015D		1	22114	JP	EET ALB	03/07/25 23:58
Total/NA	Prep	5030C			22024	JP	EET ALB	03/06/25 16:36
Total/NA	Analysis	8021B		1	22115	JP	EET ALB	03/07/25 23:58
Total/NA	Prep	SHAKE			22086	MI	EET ALB	03/07/25 14:09
Total/NA	Analysis	8015D		1	22177	EM	EET ALB	03/10/25 15:55
Total/NA	Prep	300_Prep			21986	DL	EET ALB	03/06/25 09:48
Total/NA	Analysis	300.0		20	22033	DL	EET ALB	03/07/25 13:06

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum LLC
Project/Site: Hayes Canyon

Job ID: 885-20991-1

Laboratory: Eurofins Albuquerque

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0682	10-21-25
Texas	NELAP	T104704424-23-16	06-01-25

- 1
- 2
- 3
- 4
- 5
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- 8
- 9
- 10
- 11

Login Sample Receipt Checklist

Client: Ensolum LLC

Job Number: 885-20991-1

Login Number: 20991

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, April 3, 2025 9:56 AM
To: Heather Huntington
Subject: 3RF-71 - HAYNES CANYON UNIT 432H FACILITY ID [fVV2410736869]
Attachments: C-147 3RF-71 - HAYNES CANYON UNIT 432H FACILITY ID [fVV2410736869]
04.03.2025.pdf

3RF-71 - HAYNES CANYON UNIT 432H FACILITY ID [fVV2410736869]

Good morning Ms. Huntington.

The NMOCD has reviewed the closure request and form C-147 received from [372286] ENDURING RESOURCES, LLC, on 04/01/2025, Application ID 447692, for 3RF-71 - HAYNES CANYON UNIT 432H FACILITY ID [fVV2410736869] in E-03-23N-06W, Rio Arriba County, New Mexico. The closure request has been approved.

- Please note that according to NMAC 19.15.34.14.E: Once the operator has closed the recycling containment, the operator shall reclaim the containment's location to a safe and stable condition that blends with the surrounding undisturbed area. Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment.
- The operator shall substantially restore the impacted surface area to the condition that existed prior to the construction of the recycling containment.
- NMAC 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health, and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.

Please let me know if you have any additional questions.

Regards,

Victoria Venegas • Environmental Specialist Advanced
EMNRD - Oil Conservation Division
506 W. Texas Ave. Artesia, NM 88210
575.909.0269 | Victoria.Venegas@emnrd.nm.gov

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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

CONDITIONS

Action 447692

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 447692
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	The NMOCD has reviewed the closure request and form C-147 received from [372286] ENDURING RESOURCES, LLC, on 04/01/2025, Application ID 447692, for 3RF-71 - HAYNES CANYON UNIT 432H FACILITY ID [fVV2410736869] in E-03-23N-06W, Rio Arriba County, New Mexico. The closure request has been approved. • NMAC 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health, and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.	4/3/2025