

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	nAPP2123361366
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.ralej@dv.com	Incident # (assigned by OCD) nAPP2123361366
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0210342 _____ Longitude -103.9788208 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL 22 #003H	Site Type: Oil Production Facility
Date Release Discovered: Aug 21 st , 2021	API# (if applicable) 30-015-42285

Unit Letter	Section	Township	Range	County
M	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 8
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 19
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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 type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Stainless steel line running to murphy gauge on wellhead failed, allowing for approx. 35 bbls (25PW/10 Oil) to be released to the pad surface.


$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$$

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email sent from Jim Raley on 8/21/2021, to Robert Hamlet and Emily Hernandez	

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>James Raley</u>	Title: Environmental Specialist _____
Signature: 	Date: <u>08/30/2021</u>
email: <u>jim.ralej@dvni.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>8/31/2021</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 45151

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 45151
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	8/31/2021

Incident ID	nAPP2123361366
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	51 - 100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*


- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123361366
District RP	
Facility ID	
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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: Jim Raley Title: Environmental Professional
Signature:  Date: 3/14/2022
email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2123361366
District RP	
Facility ID	
Application ID	


Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities


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

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 7/12/2022
email: jim.raley@dv.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 07/18/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



CLOSURE REQUEST REPORT

Site Location:

**East Pecos Federal 22 #003H
Eddy County, New Mexico
Incident Number: nAPP2123361366**

July 11, 2022

Ensolum Project No. 03A1987011

Prepared for:

**WPX Energy Permian, LLC
5315 Buena Vista Dr.
Carlsbad, NM 88220
Attention: Jim Raley**

Prepared by:

A handwritten signature in black ink, appearing to read "Ben. J. Belill".

Benjamin Belill
Project Geologist

A handwritten signature in black ink, appearing to read "Ashley L. Ager".

Ashley Ager, M.S., PG
Program Director, Geologist

East Pecos Federal 22 #003H
Incident Number: nAPP2123361366
Closure Request Report
July 11, 2022



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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document remediation corrective actions performed by WPX Energy Permian, LLC (WPX) at the East Pecos Federal 22 #003H (hereinafter referred to as the "Site") in Unit M, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico. The corrective actions have been completed in accordance with a Remediation Work Plan (RWP) authored by WSP USA Inc. (WSP), which was approved by the New Mexico Oil and Conservation Division (NMOCD) on March 16, 2022. All previous remediation activities and soil sample analytical results can be referenced in the original RWP and other submitted deliverable documents to the NMOCD.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.0210342° N, 103.9788208° W) and is associated with oil and gas exploration and production operations on private land (**Figure 1 in Appendix A**).

On August 21, 2021, a stainless-steel line running to a Murphy gauge on the wellhead failed and resulted in approximately 10 barrels (bbls) of crude oil and 25 bbls of produced water were released onto the surface of the well pad. Hydrovac trucks were immediately dispatched to the Site and recovered approximately 8 bbls of crude oil and 19 bbls of produced water. WPX reported the release to the NMOCD via email on the day of the release and on a subsequent Release Notification and Corrective Action Form C-141 (Form C-141) on August 30, 2021. The release was assigned Incident Number nAPP2123361366.

1.2 Site Characterization

A detailed Site Characterization can be referenced in the approved RWP, submitted by WPX on March 14, 2022. Based on the desktop review of nearby receptors and depth to groundwater determination at the Site, the following NMOCD Table 1 Closure Criteria were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH): 100 mg/kg
- Chloride: 600 mg/kg

2.0 REMEDIATION ACTIONS

WPX conducted remediation in accordance with the approved RWP and applicable NMOCD guidelines.

2.1 Excavation Activities

On May 3, 2022, additional excavation activities were conducted by Ensolum to remove impacted soil associated with the subject release via heavy equipment. Excavation activities were directed by referencing existing delineation and excavation laboratory analytical results and by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector and chloride using Hach® chloride QuanTab® test strips. As proposed in the RWP, Ensolum

extended the eastern sidewall of the western excavation to address elevated chloride detected in existing soil sample SW07 and deepened the eastern excavation near the location of existing floor sample FS07. The extent of the additional soil removal in both the eastern and western excavation areas presented on **Figure 2 in Appendix A**.

Following removal of impacted soil, Ensolum collected composite soil samples to represent at least 200 square feet from the new portions of the excavations to confirm impacted soil above the Closure Criteria was successfully removed. 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. Composite soil sample SW10 (replacing existing sample SW07) was collected from the eastern sidewall of the western excavation at a depth ranging from the ground surface to approximately 4 feet bgs. Composite soil sample FS07 (replacing existing sample FS07 collected at 3 feet bgs) was collected from the floor of the eastern excavation at a depth of 3 to 4 feet bgs. Field screening indicated only a portion of the floor associated with sample FS07 was required to be removed to meet the Closure Criteria.

The soil samples were placed directly into a 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 at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

On May 15, 2022, a 20-mil impermeable liner was placed into the entirety of the floor of the western excavated area at approximately 4 to 4.5 feet bgs as proposed in the approved RWP to act as a physical barrier and mitigate residual chloride impacts into the subsurface. Immediately following the liner installation, both excavations were backfilled with clean, non-waste containing soil.

The approximate extent of excavation, liner extent and excavation soil sample locations is provided on **Figure 2 in Appendix A**. Photographic documentation of remediation activities and liner extent is included in **Appendix B**.

2.2 Waste Handling

At the completion of remediation action activities, an additional 20 cubic yards (cy) of impacted soil were excavated under WPX approved manifests. The excavated impacted soil was transported for disposal to a R360 Environmental Solutions, LLC Facility in accordance with state and federal regulations

3.0 SOIL SAMPLING RESULTS

Final confirmation excavation soil sample laboratory analytical results (SW10 and FS07) indicated constituents of concern (COCs) were below the Closure Criteria. Laboratory analytical results are summarized on **Table 1 in Appendix C**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix D**. **Appendix E** provides sampling correspondence email notification receipts associated with the release.

4.0 FINDINGS AND CONCLUSIONS

The primary objectives of Ensolum's scope of services were to document that response actions performed at the Site were completed in accordance with the applicable NMOCD regulatory guidelines and to document COCs in soil remaining on-Site were less than the Closure Criteria for the Site. Based on the results documented in this report, the following findings and conclusions regarding the Site are presented:

- Following removal of 20 cy of impacted soil, in addition to the previously removed 740 cy, a total of approximately 760 cy of impacted soil were excavated and removed from the Site for disposal in accordance with state and federal regulations;
- Based on laboratory analytical results, concentrations of COCs greater than the NMOCD applicable Closure Criteria were not identified in areas associated with confirmation soil samples SW10 and FS07; and
- A 20-mil impermeable liner was installed at a depth ranging from 4 to 4.5 feet bgs on the floor of the western excavation area in order to act as a physical barrier and mitigate residual chloride impacts into the subsurface.

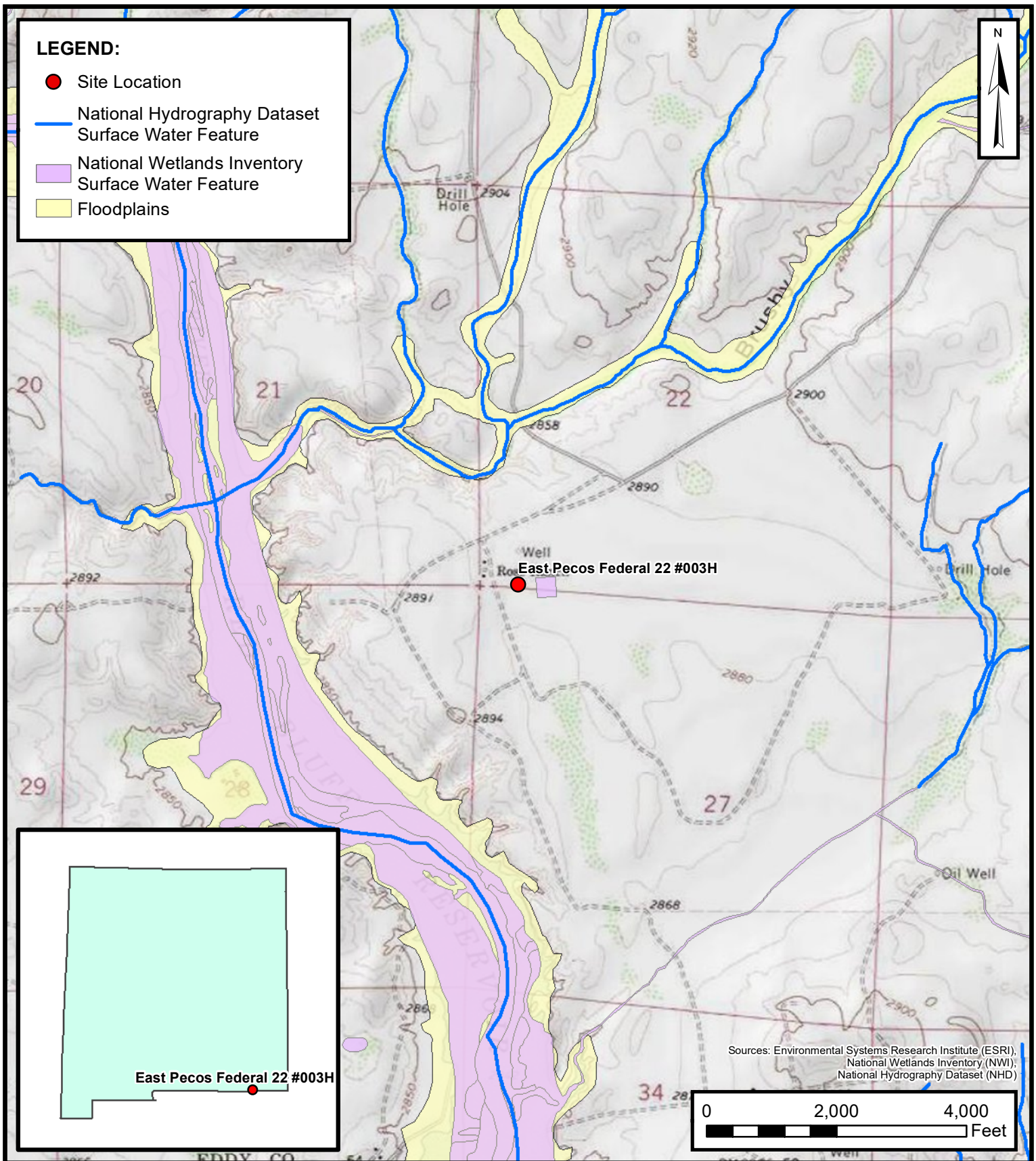
The eastern and western excavations were backfilled with clean, imported soil and restored to "as close to its original state" as possible.

Based on the findings and conclusions of this report No Further Action appears warranted at this time and the Site should be respectfully considered for closure by the NMOCD. Previous project summary and field activity details can be found in the original RWP.



APPENDIX A

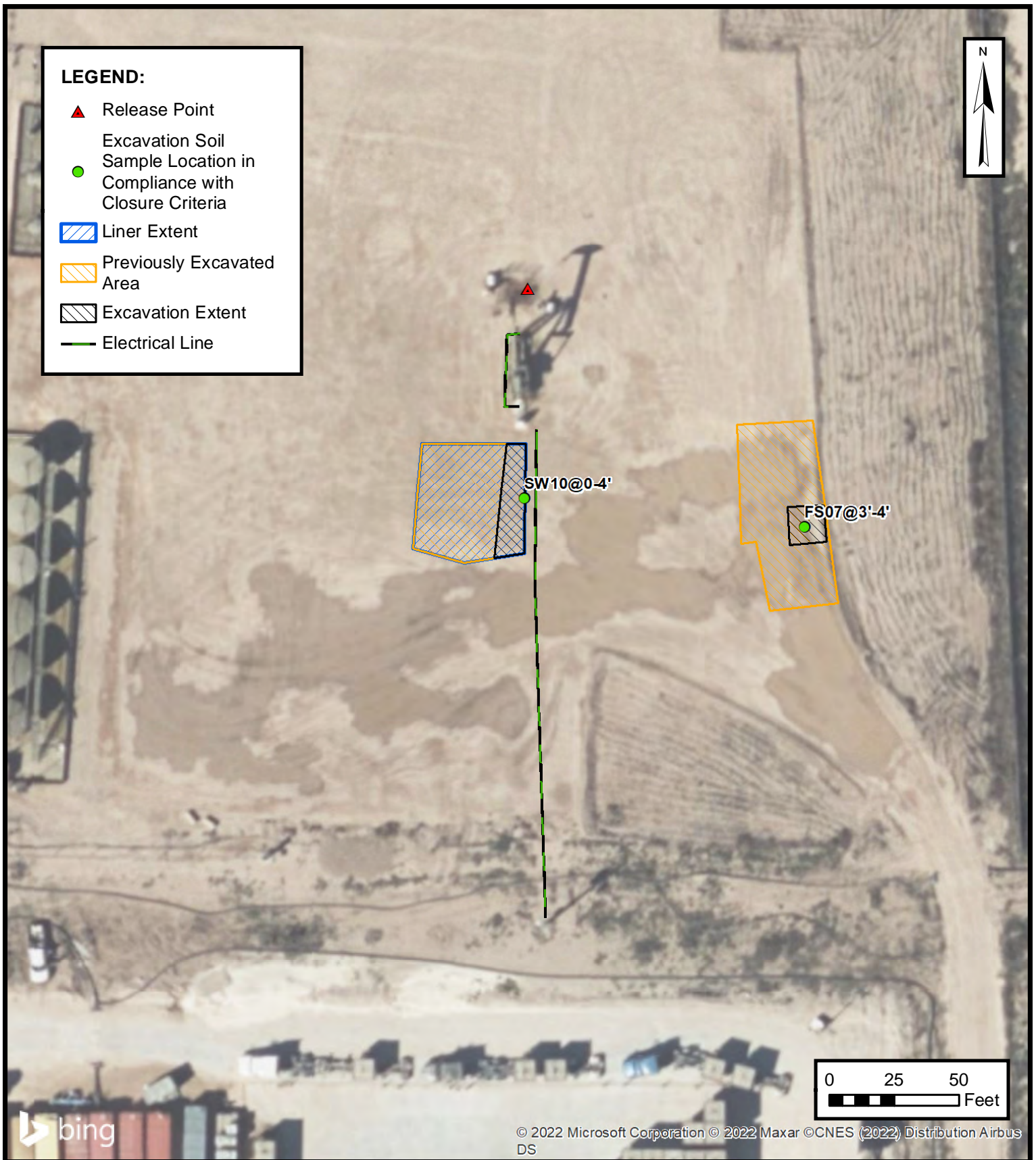
Figures



Site Location Map

East Pecos Federal 22 #003H
WPX Energy Permian, LLC
Unit M, Sec 22, T26S, R29E
Eddy County, NM

FIGURE
1



EXCAVATION SOIL SAMPLE LOCATIONS

WPX ENERGY PERMIAN, LLC
 EAST PECOS FEDERAL 22 #003H
 Unit M, Sec 22, T26S, R29E
 Eddy County, New Mexico

FIGURE

2



APPENDIX B

Photographic Log



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2123361366
Ensolum Job Number: 03A1987011



Photograph 1

Date: May 3, 2022

Description: Western Excavation Activities



Photograph 2

Date: May 3, 2022

Description: Eastern Excavation Activities



Photograph 3

Date: May 13, 2022

Description: Liner Installation Activities



Photograph 4

Date: May 15, 2022

Description: Backfilled Excavation with Liner



APPENDIX C

Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - East Pecos Federal 22 #003H
 Eddy County, New Mexico

Ensolum Project No. 03A1987011

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Soil Sample Analytical Results										
FS07	05/03/2022	3 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	380
SW10	05/03/2022	0 - 4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	388

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2272-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: East Pecos Federal 22 #003H

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Joseph Hernandez

Authorized for release by:

5/5/2022 8:13:36 PM

Brianna Teel, Project Manager
(432)704-5440

Brianna.Teel@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through

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Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Laboratory Job ID: 890-2272-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Job ID: 890-2272-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2272-1

Receipt

The sample was received on 5/3/2022 2:17 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24865 and analytical batch 880-24907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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.

Client Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Client Sample ID: SW10

Lab Sample ID: 890-2272-1

Date Collected: 05/03/22 11:00

Matrix: Solid

Date Received: 05/03/22 14:17

Sample Depth: 0 - 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/05/22 09:49	05/05/22 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/05/22 09:49	05/05/22 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/05/22 09:49	05/05/22 17:58	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/05/22 09:49	05/05/22 17:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/05/22 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/05/22 14:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/05/22 10:00	05/05/22 13:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 10:00	05/05/22 13:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 10:00	05/05/22 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	05/05/22 10:00	05/05/22 13:58	1
o-Terphenyl	96		70 - 130	05/05/22 10:00	05/05/22 13:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388		4.99		mg/Kg			05/05/22 14:13	1

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Surrogate Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14421-A-3-B MS	Matrix Spike	108	103
880-14421-A-3-C MSD	Matrix Spike Duplicate	109	103
890-2272-1	SW10	105	99
LCS 880-24865/1-A	Lab Control Sample	107	98
LCSD 880-24865/2-A	Lab Control Sample Dup	103	102
MB 880-24865/5-A	Method Blank	97	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14397-A-7-C MS	Matrix Spike	87	85
880-14397-A-7-D MSD	Matrix Spike Duplicate	85	83
890-2272-1	SW10	91	96
LCS 880-24832/2-A	Lab Control Sample	109	106
LCSD 880-24832/3-A	Lab Control Sample Dup	107	108
MB 880-24832/1-A	Method Blank	90	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24865/5-A

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/22 09:49	05/05/22 17:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/05/22 09:49	05/05/22 17:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/05/22 09:49	05/05/22 17:09	1

Lab Sample ID: LCS 880-24865/1-A

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09018		mg/Kg		90	70 - 130
Toluene	0.100	0.09404		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09779		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1105		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-24865/2-A

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09163		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09036		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.09342		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1947		mg/Kg		97	70 - 130	5	35
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-14421-A-3-B MS

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.07720		mg/Kg		77	70 - 130
Toluene	<0.00200	U	0.101	0.07287		mg/Kg		72	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14421-A-3-B MS

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.101	0.06917	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1429		mg/Kg		71	70 - 130
o-Xylene	<0.00200	U	0.101	0.07782		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-14421-A-3-C MSD

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.09416		mg/Kg		95	70 - 130	20	35
Toluene	<0.00200	U	0.0996	0.08901		mg/Kg		89	70 - 130	20	35
Ethylbenzene	<0.00200	U F1	0.0996	0.09019		mg/Kg		91	70 - 130	26	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1874		mg/Kg		94	70 - 130	27	35
o-Xylene	<0.00200	U	0.0996	0.1014		mg/Kg		102	70 - 130	26	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-24832/1-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 11:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 11:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/04/22 14:31	05/05/22 11:02	1
o-Terphenyl	98		70 - 130	05/04/22 14:31	05/05/22 11:02	1

Lab Sample ID: LCS 880-24832/2-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-24832/2-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24832

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-24832/3-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	894.7		mg/Kg		89	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	983.9		mg/Kg		98	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-14397-A-7-C MS

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	817.0		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	905.9		mg/Kg		88	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-14397-A-7-D MSD

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	787.9		mg/Kg		79	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	884.1		mg/Kg		86	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	83		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24869/1-A

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/22 13:46	1

Lab Sample ID: LCS 880-24869/2-A

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-24869/3-A

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.4		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-2272-1 MS

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: SW10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	388		250	624.0		mg/Kg		94	90 - 110

Lab Sample ID: 890-2272-1 MSD

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: SW10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	388		250	638.5		mg/Kg		100	90 - 110	2	20

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QC Association Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 24865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Total/NA	Solid	5035	
MB 880-24865/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24865/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24865/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14421-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14421-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Total/NA	Solid	8021B	24865
MB 880-24865/5-A	Method Blank	Total/NA	Solid	8021B	24865
LCS 880-24865/1-A	Lab Control Sample	Total/NA	Solid	8021B	24865
LCSD 880-24865/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24865
880-14421-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	24865
880-14421-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24865

Analysis Batch: 24933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Total/NA	Solid	8015NM Prep	
MB 880-24832/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24832/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14397-A-7-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14397-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Total/NA	Solid	8015B NM	24832
MB 880-24832/1-A	Method Blank	Total/NA	Solid	8015B NM	24832
LCS 880-24832/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24832
LCSD 880-24832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24832
880-14397-A-7-C MS	Matrix Spike	Total/NA	Solid	8015B NM	24832
880-14397-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24832

Analysis Batch: 24913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Soluble	Solid	DI Leach	
MB 880-24869/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24869/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24869/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 24869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1 MS	SW10	Soluble	Solid	DI Leach	
890-2272-1 MSD	SW10	Soluble	Solid	DI Leach	

Analysis Batch: 24914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-1	SW10	Soluble	Solid	300.0	24869
MB 880-24869/1-A	Method Blank	Soluble	Solid	300.0	24869
LCS 880-24869/2-A	Lab Control Sample	Soluble	Solid	300.0	24869
LCSD 880-24869/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24869
890-2272-1 MS	SW10	Soluble	Solid	300.0	24869
890-2272-1 MSD	SW10	Soluble	Solid	300.0	24869

Lab Chronicle

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Client Sample ID: SW10**Lab Sample ID: 890-2272-1****Date Collected: 05/03/22 11:00****Matrix: Solid****Date Received: 05/03/22 14:17**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24865	05/05/22 09:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/05/22 17:58	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24933	05/05/22 19:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24913	05/05/22 14:52	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24832	05/05/22 10:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 13:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24869	05/05/22 10:08	SC	XEN MID
Soluble	Analysis	300.0		1			24914	05/05/22 14:13	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2272-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2272-1	SW10	Solid	05/03/22 11:00	05/03/22 14:17	0 - 4'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Anna Byers	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575-200-6754	Email:	AByers@Ensolum.com

Program: <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: _____	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	East Pecos Federal 22 #003H	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes											
Project Number:	03A1987011	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																		None: NO	DI Water: H ₂ O										
Project Location:	Eddy County, NM	Due Date:	24HR																	Cool: Cool	MeOH: Me										
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC	HNO ₃ : HN										
CC #:	1061208201																			H ₂ SO ₄ : H ₂	NaOH: Na										
SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	H ₃ PO ₄ : HP										
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	-0.2																		NaHSO ₄ : NABIS										
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:																			Na ₂ S ₂ O ₃ : NaSO ₃										
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	1.8																		Zn Acetate+NaOH: Zn										
Total Containers:		Corrected Temperature:	1.6																		NaOH+Ascorbic Acid: SABC										
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments								
SW10	S	5.3.22	11:00	0-4'	Comp	1	X	CHLORIDES (EPA: 300.0)	X	TPH (8015)	X	BTEX (8021)	X													Incident ID					
																		5-3-22												nAPP2123361366	



890-2272 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Carlsbad</i>	<i>N. Carlsbad</i>	5/3/22 2:17			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2272-1

SDG Number: Eddy Co, NM

Login Number: 2272

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2272-1

SDG Number: Eddy Co, NM

Login Number: 2272**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 05/05/22 11:31 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2273-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: East Pecos Federal 22 #003H

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Joseph Hernandez

Authorized for release by:

5/5/2022 8:14:56 PM

Brianna Teel, Project Manager
(432)704-5440

Brianna.Teel@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Laboratory Job ID: 890-2273-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Job ID: 890-2273-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2273-1

Receipt

The sample was received on 5/3/2022 2:17 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24865 and analytical batch 880-24907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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.

Client Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Client Sample ID: FS07

Lab Sample ID: 890-2273-1

Date Collected: 05/03/22 12:35

Matrix: Solid

Date Received: 05/03/22 14:17

Sample Depth: 3 - 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/05/22 09:49	05/05/22 18:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/05/22 09:49	05/05/22 18:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/05/22 09:49	05/05/22 18:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/05/22 09:49	05/05/22 18:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/05/22 09:49	05/05/22 18:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/05/22 09:49	05/05/22 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/05/22 09:49	05/05/22 18:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/05/22 09:49	05/05/22 18:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/05/22 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/05/22 20:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 10:00	05/05/22 14:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 10:00	05/05/22 14:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 10:00	05/05/22 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/05/22 10:00	05/05/22 14:19	1
o-Terphenyl	115		70 - 130	05/05/22 10:00	05/05/22 14:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380		4.95		mg/Kg			05/05/22 14:39	1

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Surrogate Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14421-A-3-B MS	Matrix Spike	108	103
880-14421-A-3-C MSD	Matrix Spike Duplicate	109	103
890-2273-1	FS07	103	97
LCS 880-24865/1-A	Lab Control Sample	107	98
LCSD 880-24865/2-A	Lab Control Sample Dup	103	102
MB 880-24865/5-A	Method Blank	97	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14397-A-7-C MS	Matrix Spike	87	85
880-14397-A-7-D MSD	Matrix Spike Duplicate	85	83
890-2273-1	FS07	112	115
LCS 880-24832/2-A	Lab Control Sample	109	106
LCSD 880-24832/3-A	Lab Control Sample Dup	107	108
MB 880-24832/1-A	Method Blank	90	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24865/5-A

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/22 09:49	05/05/22 17:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/05/22 09:49	05/05/22 17:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/05/22 09:49	05/05/22 17:09	1

Lab Sample ID: LCS 880-24865/1-A

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09018		mg/Kg		90	70 - 130
Toluene	0.100	0.09404		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09779		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1105		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-24865/2-A

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09163		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09036		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.09342		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1947		mg/Kg		97	70 - 130	5	35
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-14421-A-3-B MS

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.07720		mg/Kg		77	70 - 130
Toluene	<0.00200	U	0.101	0.07287		mg/Kg		72	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-14421-A-3-B MS

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.101	0.06917	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1429		mg/Kg		71	70 - 130
o-Xylene	<0.00200	U	0.101	0.07782		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-14421-A-3-C MSD

Matrix: Solid

Analysis Batch: 24907

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.09416		mg/Kg		95	70 - 130	20	35
Toluene	<0.00200	U	0.0996	0.08901		mg/Kg		89	70 - 130	20	35
Ethylbenzene	<0.00200	U F1	0.0996	0.09019		mg/Kg		91	70 - 130	26	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1874		mg/Kg		94	70 - 130	27	35
o-Xylene	<0.00200	U	0.0996	0.1014		mg/Kg		102	70 - 130	26	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-24832/1-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 11:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 11:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/04/22 14:31	05/05/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/04/22 14:31	05/05/22 11:02	1
o-Terphenyl	98		70 - 130	05/04/22 14:31	05/05/22 11:02	1

Lab Sample ID: LCS 880-24832/2-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-24832/2-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24832

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-24832/3-A

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	894.7		mg/Kg		89	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	983.9		mg/Kg		98	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-14397-A-7-C MS

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	817.0		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	905.9		mg/Kg		88	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-14397-A-7-D MSD

Matrix: Solid

Analysis Batch: 24856

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	787.9		mg/Kg		79	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	884.1		mg/Kg		86	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	83		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24869/1-A

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/22 13:46	1

Lab Sample ID: LCS 880-24869/2-A

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-24869/3-A

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.4		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-2272-A-1-E MS

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	388		250	624.0		mg/Kg		94	90 - 110

Lab Sample ID: 890-2272-A-1-F MSD

Matrix: Solid

Analysis Batch: 24914

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	388		250	638.5		mg/Kg		100	90 - 110	2	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 24865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Total/NA	Solid	5035	
MB 880-24865/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24865/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24865/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14421-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14421-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Total/NA	Solid	8021B	24865
MB 880-24865/5-A	Method Blank	Total/NA	Solid	8021B	24865
LCS 880-24865/1-A	Lab Control Sample	Total/NA	Solid	8021B	24865
LCSD 880-24865/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24865
880-14421-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	24865
880-14421-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24865

Analysis Batch: 24934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Total/NA	Solid	8015NM Prep	
MB 880-24832/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24832/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14397-A-7-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14397-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Total/NA	Solid	8015B NM	24832
MB 880-24832/1-A	Method Blank	Total/NA	Solid	8015B NM	24832
LCS 880-24832/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24832
LCSD 880-24832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24832
880-14397-A-7-C MS	Matrix Spike	Total/NA	Solid	8015B NM	24832
880-14397-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24832

Analysis Batch: 24938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Soluble	Solid	DI Leach	
MB 880-24869/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24869/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24869/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 24869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2272-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2272-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 24914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2273-1	FS07	Soluble	Solid	300.0	24869
MB 880-24869/1-A	Method Blank	Soluble	Solid	300.0	24869
LCS 880-24869/2-A	Lab Control Sample	Soluble	Solid	300.0	24869
LCSD 880-24869/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24869
890-2272-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	24869
890-2272-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24869

Lab Chronicle

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Client Sample ID: FS07**Lab Sample ID: 890-2273-1****Date Collected: 05/03/22 12:35****Matrix: Solid****Date Received: 05/03/22 14:17**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24865	05/05/22 09:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/05/22 18:19	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24934	05/05/22 19:48	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24938	05/05/22 20:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24832	05/05/22 10:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 14:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24869	05/05/22 10:08	SC	XEN MID
Soluble	Analysis	300.0		1			24914	05/05/22 14:39	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-2273-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2273-1	FS07	Solid	05/03/22 12:35	05/03/22 14:17	3 - 4'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No:

www.xenco.com Page ____ of ____

Project Manager:	Anna Byers	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575-200-6754	Email:	AByers@Ensolum.com

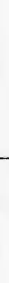
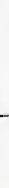
Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	East Pecos Federal 22 #003H	Turn Around		Pres. Code		ANALYSIS REQUEST						Preservative Codes							
Project Number:	03A1987011	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																None: NO	DI Water: H ₂ O
Project Location:	Eddy County, NM	Due Date:																Cool: Cool	MeOH: Me
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO ₃ : HN
CC #:	1061208201																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	(Yes) No	(Yes) No	Wet Ice:	(Yes) No												H ₃ PO ₄ : HP	
Samples Received Intact:	(Yes)	No			Thermometer ID:		174~007											NaHSO ₄ : NABIS	
Cooder Custody Seals:	Yes	No	N/A		Correction Factor:		-6.2											Na ₂ S ₂ O ₃ : NASO ₃	
Sample Custody Seals:	Yes	No	N/A		Temperature Reading:		1.3											Zn Acetate+NaOH: Zn	
Total Containers:					Corrected Temperature:		1.6											NaOH+Ascorbic Acid: SASC	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
TCLP / SPLP	6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6/3/12 7:16			

Revised Date 08/25/2020 Rev 2020

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2273-1

SDG Number: Eddy Co, NM

Login Number: 2273

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2273-1

SDG Number: Eddy Co, NM

Login Number: 2273**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 05/05/22 11:31 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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").	N/A	



APPENDIX E

Correspondence Emails

From: [Hamlet, Robert, EMNRD](#)
To: [Anna Byers](#)
Cc: [Jim Raley](#); [Joseph Hernandez](#); [Ben Belill](#); [Bratcher, Mike, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] WPX Site Activity Update for Week of May 2, 2022
Date: Thursday, April 28, 2022 10:00:33 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Anna,

Thank you for the notification. Please 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.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, April 28, 2022 9:15 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: Fw: [EXTERNAL] WPX Site Activity Update for Week of May 2, 2022

From: Anna Byers <abyers@ensolum.com>
Sent: Thursday, April 28, 2022 9:09 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: jim.raley@dmv.com <jim.raley@dmv.com>; Joseph Hernandez <jhernandez@ensolum.com>; Ben Belill <bbelill@ensolum.com>
Subject: [EXTERNAL] WPX Site Activity Update for Week of May 2, 2022

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

Good morning,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between May 2-6, 2022:

Ensolum

Site: North Brushy Draw Federal 35 #002H

API: [30-015-40006](#)

Incident Number: NRM2014147987

Site: North Brushy Draw Federal 35 #009H

API: [30-015-42220](#)

Incident Number: NRM2020657799

Site: North Brushy Draw Federal 35#012H

API: [30-015-43603](#)

Incident Number: nAPP2208844411


Site: East Pecos Federal 22 #003H

API: [30-015-42285](#)

Incident Number: nAPP2123361366

Thank you,



Anna Byers
Project Geologist
575-200-6754
Ensolum, LLC
in f 

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 124392

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 124392
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	7/18/2022