

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:	nAPP2208846424
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@dvn.com	Incident # (assigned by OCD): nAPP2208846424
Contact mailing address: 5315 Buena Vista Dr, Carlsbad, NM, 88220	

Location of Release Source

Latitude 32.0072937 Longitude -103.9659729
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Pecos Federal #001Y	Site Type: Oil Production Site
Date Release Discovered: 3/21/2022	API# (if applicable): 30-015-24875

Unit Letter	Section	Township	Range	County
P	27	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)

☒ Crude Oil	Volume Released (bbls): 8	Volume Recovered (bbls): 3
☐ Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Tank overflow allowed the release of approx. 8 bbls of oil. Approx 6 bbls was released to secondary containment of which 3 bbls was recovered. Winds allowed approx. 2 bbls to impact soils offsite.

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

Oil Conservation Division

Incident ID:	nAPP2208846424
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ 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>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>12/29/2022</u>
email: <u>jim.raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

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?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ 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

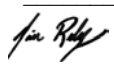
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

Oil Conservation Division

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Printed Name: Jim Raley Title: Environmental Professional

Signature:  Date: 12/29/2022

email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon Date: 12/29/2022

Incident ID:	nAPP2208846424
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: 12/29/2022
email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon Date: 12/29/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 01/24/2023

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1625 N. French Dr., Hobbs, NM 88240
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Energy Minerals and Natural
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Oil Conservation Division
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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1431650115
District RP	2RP-2595
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party WPX Energy, Inc.	OGRID 246289
Contact Name Jim Raley	Contact Telephone (575)689-7597
Contact email jim.raley@dvn.com	Incident # (assigned by OCD) NAB1431650115
Contact mailing address 5315 Buena Vista Dr., Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0072945706848 Longitude -103.965986188431
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pecos Federal 001Y	Site Type Oil and Gas Well
Date Release Discovered 11/10/2014	API# (if applicable) 30-015-24875

Unit Letter	Section	Township	Range	County
P	27	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

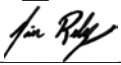
Transfer pump suction line from tank battery developed a leak and released 25 bbls of produced water to lined secondary containment. A vacuum truck was used to recover free liquids. The suction line, formerly rubber hose construction, was replaced with steel line. All fluids remained in lined secondary containment and was able to be recovered with vacuum truck.

Incident ID	NAB1431650115
District RP	2RP-2595
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Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
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Signature: <u></u>	Date: <u>12/29/2022</u>
email: <u>jim.raley@dvn.com</u>	Telephone: <u>575-686-7597</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
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Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ 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.
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- ☒ 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

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 12/29/2022
email: jim.raley@dmv.com Telephone: 575-686-7597

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1431650115
District RP	2RP-2595
Facility ID	
Application ID	

Remediation Plan

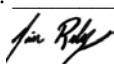
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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- ☒ Estimated volume of material to be remediated
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- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 12/29/2022
email: jim.raley@dvn.com Telephone: 575-686-7597

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



REMEDIATION WORK PLAN ADDENDUM

Site Location:

**Pecos Federal #001Y
Eddy County, New Mexico
Incident Numbers:
nAPP2208846424 and nAB1431650115**

December 21, 2022
Ensolum Project No. 03A1987014

Prepared for:

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

Prepared by:

Erick Herrera
Staff Geologist

Ashley Ager, MS, PG
Principal

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2.0	SOIL SAMPLING AND REMEDIAL ACTIONS.....	1
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	Figure 2: Delineation Soil Sample Locations
	Figure 3: Proposed Remediation Areas
Appendix B:	Lithologic Soil Sampling Logs
Appendix C:	Photographic Log
Appendix D:	Tables
Appendix E:	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F:	Email Correspondence

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Remediation Work Plan Addendum (RWPA) to summarize supplemental delineation soil sampling activities completed by WPX Permian Energy, LLC (WPX) at the Pecos Federal #001Y (hereinafter referred to as the "Site") in Unit P, Section 27, Township 26 South, Range 30 East, in Eddy County, New Mexico (**Figure 1 in Appendix A**). The Remediation Work Plan (RWP) which was approved by the New Mexico Oil Conservation Division (NMOCD) on September 20, 2022 and issued the following condition:

"Remediation Plan Approved with Conditions. Please address chloride concentrations in PH-13 at 2' (1,460 mg/kg)."

WPX respectfully submits this RWPA, which includes a summary of additional soil sampling activities and proposes excavation of the area of concern (AOC) associated with north of the tank battery near PH13 and west side of the tank battery containment, followed by the installation of a 20-mil impermeable liner to act as a physical barrier to mitigate further chloride impacts into the subsurface. All previous remediation activities and soil sample analytical results can be referenced in the original RWP.

1.1 Site Description & Release Background

The Site is located within Eddy County, New Mexico (32.0072937°N, 103.9659729°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (**Figure 1 in Appendix A**). As previously documented in the RWP, the release of produced water from Incident Number nAPP2208846424 overlapped the historical release of crude oil associated with Incident Number nAB1431650115 and the corrective actions are being implemented concurrently.

Based on the results of the Site Characterization documented in the RWP, the following NMOCD Table 1 Closure Criteria (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 SOIL SAMPLING AND REMEDIAL ACTIONS

WPX previously performed initial response efforts to remove immediate impacts from the secondary containment for off-Site disposal and conducted delineation soil sampling activities. During delineation soil sampling events, WPX encountered additional areas requiring soil investigation. All delineation soil sample locations from previous events are included in **Figure 2 in Appendix A** and results were described in the RWP.

2.1 Continued Delineation Activities

On November 10, 2022, Ensolum continued delineation activities as specified in the approved RWP to confirm the vertical extent of impacted soil within the AOC west of the containment as compared to the Closure Criteria. Two potholes (PH11 and PH16) were advanced in existing delineation sample locations to obtain deeper samples. One pothole (PH18) was advanced within the AOC to improve lateral control. Potholes were advanced with heavy equipment and soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

In general, a minimum of two soil samples were collected from existing or new delineation soil sample locations to fully characterize residual impacts: the sample with the highest observed field screening (ranging from 0.5 foot bgs to 4 feet bgs) and the greatest depth (8 feet bgs). The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Field screening results and visual observations for each delineation soil sample were recorded on lithologic/soil sampling logs (**Appendix B**). 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 6 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. Photographic documentation during delineation activities is included in **Appendix C**.

3.0 SOIL SAMPLING RESULTS

Laboratory analytical results for the new delineation soil samples collected from PH18 indicate that vertical impacts exceeding the most stringent Closure Criteria do not exceed 8 feet bgs within the AOC and are shallower near PH11 and PH16, ending near 4 feet bgs. These results correspond to results previously obtained in PH15. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**. **Appendix F** provides correspondence email notification receipts associated with the subject release.

4.0 REMEDIATION WORK PLAN

The primary objectives of Ensolum's scope of services were to document continued delineation activities performed at the Site were completed in accordance with the applicable NMOCD regulatory guidelines and to document those concentrations of COCs present in soil remaining on-Site, then propose remediation to address any residual elevated concentrations.

Based on the results documented in this and previous reports, the following findings and conclusions regarding the AOC are presented:

- Laboratory analytical results for the new delineation soil samples indicate that vertical impacts in the AOC exceeding the most stringent Closure Criteria range from 4 to 8 feet bgs;
- Based on existing soil analytical results for PH11, PH13, PH15, PH16, and PH18 and mapped extent of the AOC associated with those locations, an estimated **530 cubic yards** of impacted soil is anticipated to be removed from the Site for disposal in accordance with state and federal regulations;
- Based on existing soil analytical results for PH11 and PH18 and mapped extent of the AOC associated with those locations, an estimated **365 cubic yards** of impacted soil is anticipated to be left in place beneath the proposed 20-mil impermeable liner at 4 feet bgs in accordance with state and federal regulations; and

Based on the conclusions presented above, Ensolum proposes excavation of the AOC to 2 to 4 feet, followed by the installation of a 20-mil impermeable liner at approximately 4 feet bgs inside the proposed excavation associated with PH11 and PH18 to act as a physical barrier and mitigate further chloride impacts into the subsurface as described below:

- WPX will collect 5-point composite samples from the sidewalls of the excavations to confirm removal of residual impacts based on analysis described above;

- WPX will collect 5-point composite samples from the floors of the excavations associated with PH13, PH15 and PH16 to confirm removal of residual impacts based on analysis described above;
- Residual chloride impacts within the proposed liner area are defined by delineation soil sample PH11 and PH18, therefore no confirmation floor soil samples will be collected in that area;
- Excavated soil will then be transferred to a New Mexico approved landfill facility for disposal; and
- Once complete, WPX will backfill the area with non-waste containing soil.

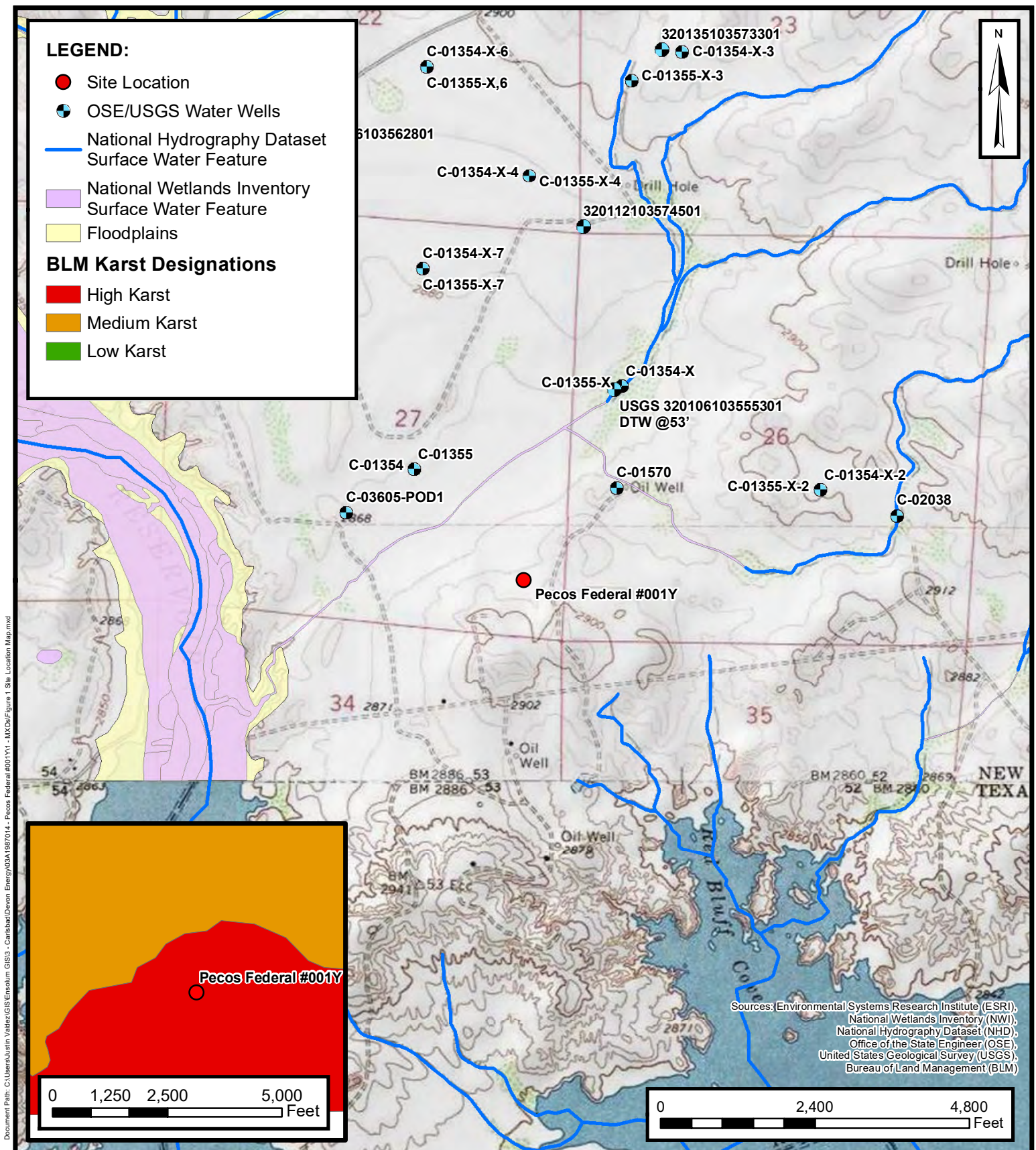
The proposed excavation (AOC) and liner extent is shown on **Figure 3** in **Appendix A**. Once excavation is completed, WPX will submit a final report, documenting remediation of impacted soil west and north of the containment and proposing deferral of delineated impacts under active production equipment (inside the containment).

WPX believes the scope of work described above will meet requirements set forth in NMAC 19.15.29.13 and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWPA from NMOCD.



APPENDIX A

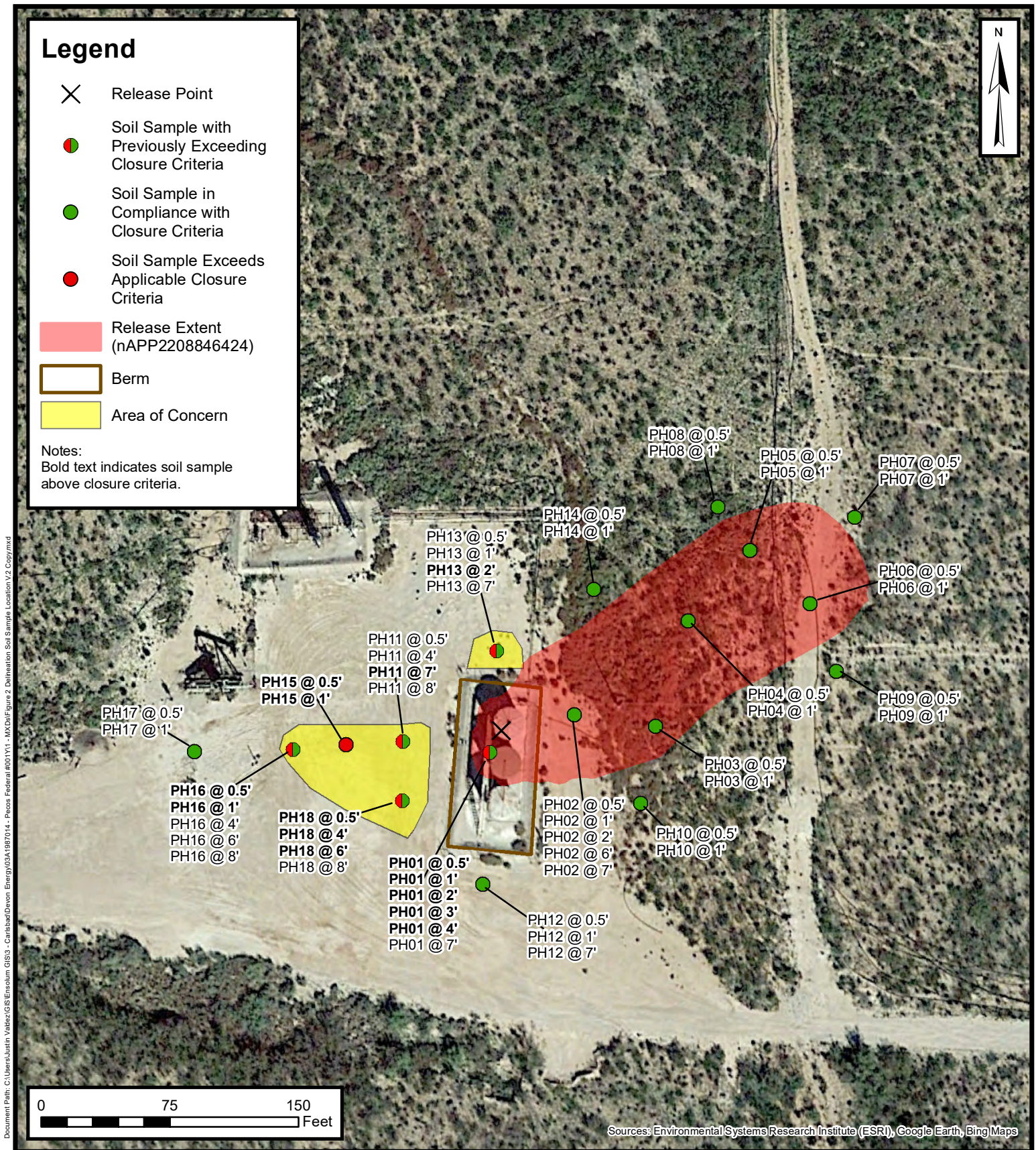
Figures



Site Map

Pecos Federal #001Y
WPX Energy Permian, LLC
Unit P, Section 27, Township 26S, Range 29E
Eddy County, New Mexico

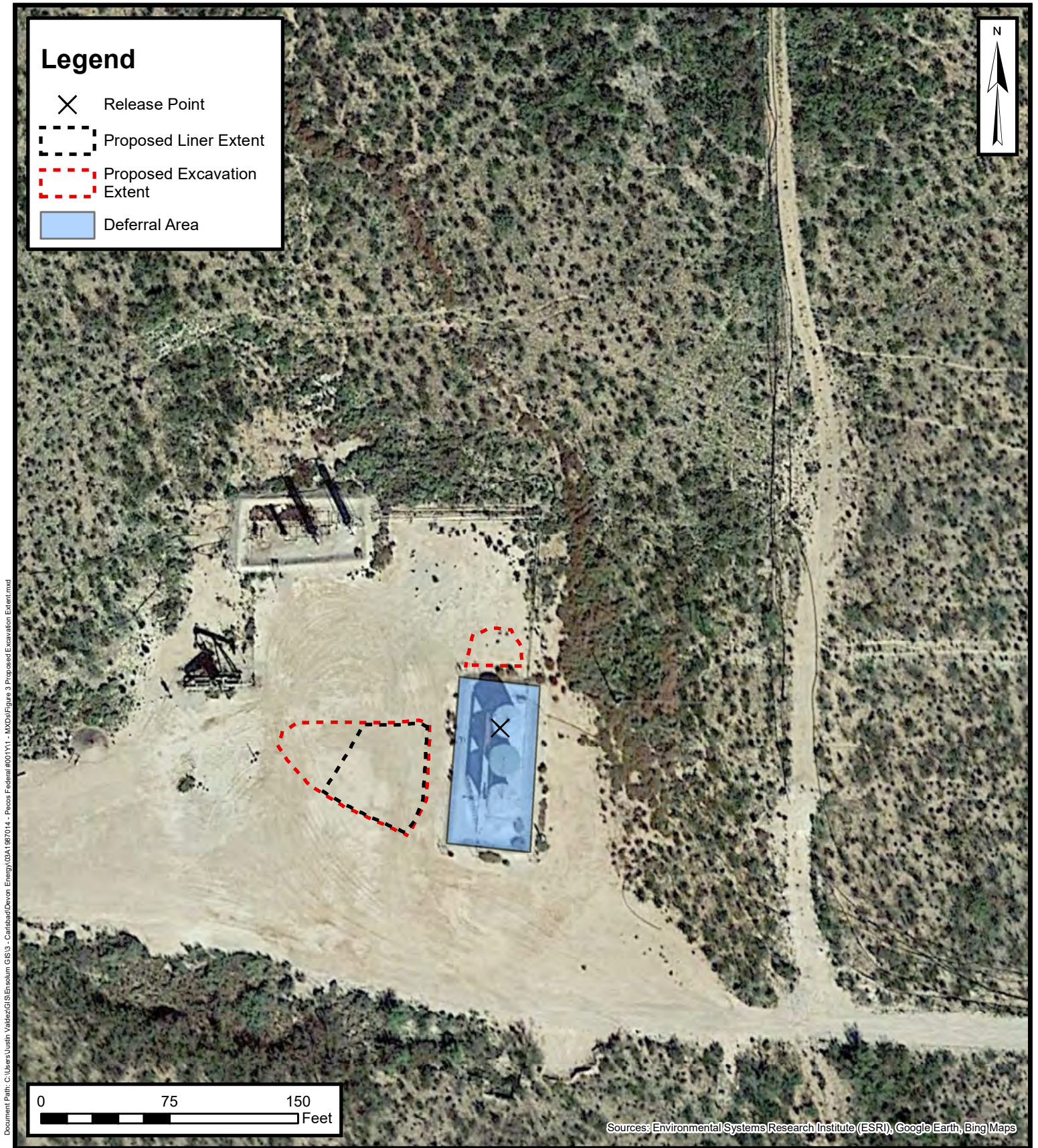
FIGURE
1



Delineation Soil Sample Locations

Pecos Federal #001Y
 WPX Energy Permian, LLC
 Unit P, Section 27, Township 26S, Range 29E
 Eddy County, New Mexico

FIGURE
2



Proposed Remediation Area

Pecos Federal #001Y
WPX Energy Permian, LLC
Unit P, Section 27, Township 26S, Range 29E
Eddy County, New Mexico

FIGURE
3



APPENDIX B

Lithologic Soil Sampling Logs

 ENSOLUM								Sample Name: PH11		Date: 11/10/2022	
								Site Name: Pecos Federal #001Y			
								Incident Number: nAPP2208846424			
								Job Number: 03A1987014			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KYE		Method: Backhoe	
Coordinates: 32.0072937, -103.9659729								Hole Diameter: N/A		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	487	0.1	N	PH11		0	SW-SM	(0-8') SAND, dry, brown, well graded with silt, very fine-medium, trace subround-subangular gravel, no odor, no staining. @3', color change to reddish-brown. @4', color change to tan-brown.			
					1	1					
					2	2					
					3	3					
					4	4					
					5	5					
					6	6					
D	296	0.2	N	PH11	7	7					
					8	8					
Total Depth: 8 feet bgs.											

 ENSOLUM								Sample Name: PH16		Date: 11/10/2022	
								Site Name: Pecos Federal #001Y			
								Incident Number: nAPP2208846424			
								Job Number: 03A1987014			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KYE		Method: Backhoe	
Coordinates: 32.0072937, -103.9659729								Hole Diameter: N/A		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	SP	(0-8') SAND, dry, brown, poorly graded, very fine-medium, trace subround-subangular gravel, no odor, no staining.			
					1	1					
					2	2					
					3	3					
D	733	0.1	N	PH16	4	4					
					5	5					
D	436	0.0	N	PH16	6	6					
					7	7					
D	257	0.1	N	PH16	8	8					
Total Depth: 8 feet bgs.											

 ENSOLUM								Sample Name: PH18		Date: 11/10/2022	
								Site Name: Pecos Federal #001Y			
								Incident Number: nAPP2208846424			
								Job Number: 03A1987014			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KYE		Method: Backhoe	
Coordinates: 32.0072937, -103.9659729								Hole Diameter: N/A		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3,404	0.2	N	PH18	0.5	0.5	SP	(0-8') SAND, dry, brown, poorly graded, very fine-medium, trace subround-subangular gravel, no odor, no staining.			
					1	1					
					2	2					
					3	3					
D	666	0.1	N	PH18	4	4					
					5	5					
D	604	0.0	N	PH18	6	6					
					7	7					
D	296	0.0	N	PH18	8	8					
Total Depth: 8 feet bgs.											



APPENDIX C

Photographic Log

**Photographic Log**

Client Name: WPX Energy Permian, LLC

Site Name: Pecos Federal #001Y



Photograph: 1 Date: 11/1/2022
Description: Initial Site assessment
View: East



Photograph: 2 Date: 11/10/2022
Description: Delineation activities, PH11
View: Northeast



Photograph: 3 Date: 11/10/2022
Description: Delineation activities, PH16
View: Northeast



Photograph: 4 Date: 11/10/2022
Description: Delineation activities, PH16
View: Northeast



APPENDIX D

Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - Pecos Federal #001Y
 Eddy County, New Mexico

Ensolum Project No. 03A1987014

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)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Sample Analytical Results									
PH11	05/18/2022	0.5	<0.00200	<0.00200	<50.0	70.6	<50.0	70.6	537
PH11	11/10/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	490
PH11	05/18/2022	7	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	4,740
PH11	11/10/2022	8	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	204
PH15	05/18/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	67.9	67.9	8,780
PH15	05/18/2022	1	<0.00198	<0.00396	147	<49.9	<49.9	147	1,570
PH16	05/18/2022	0.5	<0.00198	<0.00397	144	<50.0	<50.0	144	7,560
PH16	05/18/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	673
PH16	11/10/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	211
PH16	11/10/2022	6	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	424
PH16	11/10/2022	8	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	221



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 WPX Energy Permian, LLC - Pecos Federal #001Y
 Eddy County, New Mexico

Ensolum Project No. 03A1987014

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)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
PH18	11/10/2022	0.5	<0.00200	<0.00401	<50.0	66.9	90.9	158	4,080
PH18	11/10/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	629
PH18	11/10/2022	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	600
PH18	11/10/2022	8	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	365

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 E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team
Ensolum
705 W. Wadley
Suite 210
Midland Texas 79701

Generated 11/22/2022 3:23:06 PM

JOB DESCRIPTION

Pecos Fed 1Y
SDG NUMBER Eddy County NM

JOB NUMBER

890-3434-1

Client: Ensolum
Project/Site: Pecos Fed 1Y

Laboratory Job ID: 890-3434-1
SDG: Eddy County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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.
□	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: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Job ID: 890-3434-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-3434-1**

Receipt

The samples were received on 11/11/2022 10:04 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 5.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH11 (890-3434-1), PH11 (890-3434-2), PH16 (890-3434-3), PH16 (890-3434-4), PH16 (890-3434-5), PH18 (890-3434-6), PH18 (890-3434-7), PH18 (890-3434-8) and PH18 (890-3434-9).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH11 (890-3434-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH11

Lab Sample ID: 890-3434-1

Date Collected: 11/10/22 09:10

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	11/14/22 15:47	11/22/22 03:32	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130	11/14/22 15:47	11/22/22 03:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/15/22 16:29	1

Method: SW846 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		11/14/22 14:27	11/15/22 14:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 14:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	11/14/22 14:27	11/15/22 14:59	1
o-Terphenyl	93		70 - 130	11/14/22 14:27	11/15/22 14:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		4.98		mg/Kg			11/16/22 02:40	1

Client Sample ID: PH11

Lab Sample ID: 890-3434-2

Date Collected: 11/10/22 09:20

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 8'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/14/22 15:47	11/22/22 03:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH11

Lab Sample ID: 890-3434-2

Date Collected: 11/10/22 09:20

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 8'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	129		70 - 130	11/14/22 15:47	11/22/22 03:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/16/22 09:14	1

Method: SW846 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		11/14/22 14:27	11/15/22 16:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/14/22 14:27	11/15/22 16:05	1
o-Terphenyl	93		70 - 130				11/14/22 14:27	11/15/22 16:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.97		mg/Kg			11/16/22 02:46	1

Client Sample ID: PH16

Lab Sample ID: 890-3434-3

Date Collected: 11/10/22 09:40

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 04:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 04:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 04:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 04:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 04:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/14/22 15:47	11/22/22 04:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/14/22 15:47	11/22/22 04:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 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			11/16/22 09:14	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH16

Lab Sample ID: 890-3434-3

Date Collected: 11/10/22 09:40

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 4'

Method: SW846 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		11/14/22 14:27	11/15/22 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 16:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/14/22 14:27	11/15/22 16:26	1
o-Terphenyl	88		70 - 130				11/14/22 14:27	11/15/22 16:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		5.01		mg/Kg			11/16/22 02:51	1

Client Sample ID: PH16

Lab Sample ID: 890-3434-4

Date Collected: 11/10/22 09:50

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 15:47	11/22/22 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/14/22 15:47	11/22/22 04:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/14/22 15:47	11/22/22 04:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/16/22 09:14	1

Method: SW846 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		11/14/22 14:27	11/15/22 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/14/22 14:27	11/15/22 16:47	1
o-Terphenyl	88		70 - 130				11/14/22 14:27	11/15/22 16:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH16

Lab Sample ID: 890-3434-4

Date Collected: 11/10/22 09:50

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 6'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		4.98		mg/Kg			11/16/22 02:57	1

Client Sample ID: PH16

Lab Sample ID: 890-3434-5

Date Collected: 11/10/22 10:00

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 8'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 04:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 04:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				11/14/22 15:47	11/22/22 04:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/14/22 15:47	11/22/22 04:54	1

Method: TAL SOP 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			11/22/22 15:30	1

Method: SW846 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			11/16/22 09:14	1

Method: SW846 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		11/14/22 14:27	11/15/22 17:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 17:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/14/22 14:27	11/15/22 17:08	1
o-Terphenyl	99		70 - 130				11/14/22 14:27	11/15/22 17:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		5.03		mg/Kg			11/16/22 03:02	1

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Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH18

Lab Sample ID: 890-3434-6

Date Collected: 11/10/22 10:20

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 05:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 15:47	11/22/22 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	11/14/22 15:47	11/22/22 05:15	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/14/22 15:47	11/22/22 05:15	1

Method: TAL SOP 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			11/22/22 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	158		50.0		mg/Kg			11/16/22 09:14	1

Method: SW846 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		11/14/22 14:27	11/15/22 17:28	1
Diesel Range Organics (Over C10-C28)	66.9		50.0		mg/Kg		11/14/22 14:27	11/15/22 17:28	1
Oil Range Organics (Over C28-C36)	90.9		50.0		mg/Kg		11/14/22 14:27	11/15/22 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	11/14/22 14:27	11/15/22 17:28	1
o-Terphenyl	99		70 - 130	11/14/22 14:27	11/15/22 17:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4080		50.2		mg/Kg			11/16/22 03:19	10

Client Sample ID: PH18

Lab Sample ID: 890-3434-7

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 15:47	11/22/22 05:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 15:47	11/22/22 05:36	1

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Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH18

Lab Sample ID: 890-3434-7

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 4'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/14/22 15:47	11/22/22 05:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/14/22 15:47	11/22/22 05:36	1

Method: TAL SOP 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			11/22/22 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/16/22 09:14	1

Method: SW846 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		11/14/22 14:27	11/15/22 17:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 17:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				11/14/22 14:27	11/15/22 17:49	1
o-Terphenyl	85		70 - 130				11/14/22 14:27	11/15/22 17:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	629		5.04		mg/Kg			11/16/22 03:25	1

Client Sample ID: PH18

Lab Sample ID: 890-3434-8

Date Collected: 11/10/22 10:40

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/14/22 15:47	11/22/22 05:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/14/22 15:47	11/22/22 05:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/16/22 09:14	1

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Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH18

Lab Sample ID: 890-3434-8

Date Collected: 11/10/22 10:40

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 6'

Method: SW846 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		11/14/22 14:27	11/15/22 18:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 18:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 14:27	11/15/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				11/14/22 14:27	11/15/22 18:10	1
o-Terphenyl	76		70 - 130				11/14/22 14:27	11/15/22 18:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	600		4.97		mg/Kg			11/16/22 03:42	1

Client Sample ID: PH18

Lab Sample ID: 890-3434-9

Date Collected: 11/10/22 10:50

Matrix: Solid

Date Received: 11/11/22 10:04

Sample Depth: 8'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/14/22 15:47	11/22/22 06:17	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/14/22 15:47	11/22/22 06:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/16/22 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/14/22 14:27	11/15/22 18:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/14/22 14:27	11/15/22 18:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/14/22 14:27	11/15/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/14/22 14:27	11/15/22 18:31	1
o-Terphenyl	83		70 - 130				11/14/22 14:27	11/15/22 18:31	1

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Client Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH18

Date Collected: 11/10/22 10:50

Date Received: 11/11/22 10:04

Sample Depth: 8'

Lab Sample ID: 890-3434-9

Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		25.3		mg/Kg			11/16/22 03:48	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County 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	DFBZ1				
		(70-130)	(70-130)				
890-3423-A-1-D MS	Matrix Spike	104	94				
890-3423-A-1-E MSD	Matrix Spike Duplicate	113	87				
890-3434-1	PH11	135 S1+	136 S1+				
890-3434-2	PH11	122	129				
890-3434-3	PH16	116	106				
890-3434-4	PH16	118	108				
890-3434-5	PH16	117	107				
890-3434-6	PH18	127	108				
890-3434-7	PH18	121	104				
890-3434-8	PH18	121	106				
890-3434-9	PH18	124	111				
LCS 880-39546/1-A	Lab Control Sample	91	82				
LCSD 880-39546/2-A	Lab Control Sample Dup	99	93				
MB 880-39546/5-A	Method Blank	112	92				
MB 880-40068/5-A	Method Blank	101	92				
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	OTPH1				
		(70-130)	(70-130)				
890-3432-A-1-E MS	Matrix Spike	88	75				
890-3432-A-1-F MSD	Matrix Spike Duplicate	87	74				
890-3434-1	PH11	92	93				
890-3434-2	PH11	94	93				
890-3434-3	PH16	88	88				
890-3434-4	PH16	89	88				
890-3434-5	PH16	100	99				
890-3434-6	PH18	100	99				
890-3434-7	PH18	86	85				
890-3434-8	PH18	78	76				
890-3434-9	PH18	85	83				
LCS 880-39516/2-A	Lab Control Sample	84	81				
LCSD 880-39516/3-A	Lab Control Sample Dup	84	81				
MB 880-39516/1-A	Method Blank	107	110				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39546/5-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/22 15:47	11/21/22 22:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/14/22 15:47	11/21/22 22:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/14/22 15:47	11/21/22 22:20	1

Lab Sample ID: LCS 880-39546/1-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06955		mg/Kg		70	70 - 130
Toluene	0.100	0.08190		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08788		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-39546/2-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07665		mg/Kg		77	70 - 130	10	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	9	35
Ethylbenzene	0.100	0.09524		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	9	35
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-3423-A-1-D MS

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07603		mg/Kg		76	70 - 130
Toluene	<0.00199	U	0.0998	0.08510		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

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

Lab Sample ID: 890-3423-A-1-D MS

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.08975		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1800		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1033		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3423-A-1-E MSD

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.07504		mg/Kg		75	70 - 130	1	35
Toluene	<0.00199	U	0.0996	0.08927		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0996	0.09882		mg/Kg		99	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1954		mg/Kg		98	70 - 130	8	35
o-Xylene	<0.00199	U	0.0996	0.1117		mg/Kg		112	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-40068/5-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/21/22 09:48	11/21/22 11:40	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/21/22 09:48	11/21/22 11:40	1

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

Lab Sample ID: MB 880-39516/1-A

Matrix: Solid

Analysis Batch: 39567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39516

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		11/14/22 14:27	11/15/22 08:37	1

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QC Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-39516/1-A

Matrix: Solid

Analysis Batch: 39567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 08:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 14:27	11/15/22 08:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/14/22 14:27	11/15/22 08:37	1
o-Terphenyl	110		70 - 130				11/14/22 14:27	11/15/22 08:37	1

Lab Sample ID: LCS 880-39516/2-A

Matrix: Solid

Analysis Batch: 39567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	801.1		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	802.2		mg/Kg		80	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	84		70 - 130				
o-Terphenyl	81		70 - 130				

Lab Sample ID: LCSD 880-39516/3-A

Matrix: Solid

Analysis Batch: 39567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	805.9		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	801.6		mg/Kg		80	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	81		70 - 130						

Lab Sample ID: 890-3432-A-1-E MS

Matrix: Solid

Analysis Batch: 39567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1121		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	818.0		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	75		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

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

Lab Sample ID: 890-3432-A-1-F MSD

Matrix: Solid

Analysis Batch: 39567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39516

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	999	1119		mg/Kg		110	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	826.5		mg/Kg		81	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	74		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39449/1-A

Matrix: Solid

Analysis Batch: 39642

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			11/16/22 01:26	1

Lab Sample ID: LCS 880-39449/2-A

Matrix: Solid

Analysis Batch: 39642

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.3		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-39449/3-A

Matrix: Solid

Analysis Batch: 39642

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	274.5		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 890-3434-5 MS

Matrix: Solid

Analysis Batch: 39642

Client Sample ID: PH16

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	221		252	478.7		mg/Kg		102	90 - 110

Lab Sample ID: 890-3434-5 MSD

Matrix: Solid

Analysis Batch: 39642

Client Sample ID: PH16

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	221		252	472.1		mg/Kg		100	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

GC VOA

Prep Batch: 39546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	5035	
890-3434-2	PH11	Total/NA	Solid	5035	
890-3434-3	PH16	Total/NA	Solid	5035	
890-3434-4	PH16	Total/NA	Solid	5035	
890-3434-5	PH16	Total/NA	Solid	5035	
890-3434-6	PH18	Total/NA	Solid	5035	
890-3434-7	PH18	Total/NA	Solid	5035	
890-3434-8	PH18	Total/NA	Solid	5035	
890-3434-9	PH18	Total/NA	Solid	5035	
MB 880-39546/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39546/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39546/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3423-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3423-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 40037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8021B	39546
890-3434-2	PH11	Total/NA	Solid	8021B	39546
890-3434-3	PH16	Total/NA	Solid	8021B	39546
890-3434-4	PH16	Total/NA	Solid	8021B	39546
890-3434-5	PH16	Total/NA	Solid	8021B	39546
890-3434-6	PH18	Total/NA	Solid	8021B	39546
890-3434-7	PH18	Total/NA	Solid	8021B	39546
890-3434-8	PH18	Total/NA	Solid	8021B	39546
890-3434-9	PH18	Total/NA	Solid	8021B	39546
MB 880-39546/5-A	Method Blank	Total/NA	Solid	8021B	39546
MB 880-40068/5-A	Method Blank	Total/NA	Solid	8021B	40068
LCS 880-39546/1-A	Lab Control Sample	Total/NA	Solid	8021B	39546
LCSD 880-39546/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39546
890-3423-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39546
890-3423-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39546

Prep Batch: 40068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40068/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 40234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	Total BTEX	
890-3434-2	PH11	Total/NA	Solid	Total BTEX	
890-3434-3	PH16	Total/NA	Solid	Total BTEX	
890-3434-4	PH16	Total/NA	Solid	Total BTEX	
890-3434-5	PH16	Total/NA	Solid	Total BTEX	
890-3434-6	PH18	Total/NA	Solid	Total BTEX	
890-3434-7	PH18	Total/NA	Solid	Total BTEX	
890-3434-8	PH18	Total/NA	Solid	Total BTEX	
890-3434-9	PH18	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

GC Semi VOA

Prep Batch: 39516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8015NM Prep	
890-3434-2	PH11	Total/NA	Solid	8015NM Prep	
890-3434-3	PH16	Total/NA	Solid	8015NM Prep	
890-3434-4	PH16	Total/NA	Solid	8015NM Prep	
890-3434-5	PH16	Total/NA	Solid	8015NM Prep	
890-3434-6	PH18	Total/NA	Solid	8015NM Prep	
890-3434-7	PH18	Total/NA	Solid	8015NM Prep	
890-3434-8	PH18	Total/NA	Solid	8015NM Prep	
890-3434-9	PH18	Total/NA	Solid	8015NM Prep	
MB 880-39516/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39516/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3432-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3432-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8015B NM	39516
890-3434-2	PH11	Total/NA	Solid	8015B NM	39516
890-3434-3	PH16	Total/NA	Solid	8015B NM	39516
890-3434-4	PH16	Total/NA	Solid	8015B NM	39516
890-3434-5	PH16	Total/NA	Solid	8015B NM	39516
890-3434-6	PH18	Total/NA	Solid	8015B NM	39516
890-3434-7	PH18	Total/NA	Solid	8015B NM	39516
890-3434-8	PH18	Total/NA	Solid	8015B NM	39516
890-3434-9	PH18	Total/NA	Solid	8015B NM	39516
MB 880-39516/1-A	Method Blank	Total/NA	Solid	8015B NM	39516
LCS 880-39516/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39516
LCSD 880-39516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39516
890-3432-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	39516
890-3432-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39516

Analysis Batch: 39646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Total/NA	Solid	8015 NM	
890-3434-2	PH11	Total/NA	Solid	8015 NM	
890-3434-3	PH16	Total/NA	Solid	8015 NM	
890-3434-4	PH16	Total/NA	Solid	8015 NM	
890-3434-5	PH16	Total/NA	Solid	8015 NM	
890-3434-6	PH18	Total/NA	Solid	8015 NM	
890-3434-7	PH18	Total/NA	Solid	8015 NM	
890-3434-8	PH18	Total/NA	Solid	8015 NM	
890-3434-9	PH18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Soluble	Solid	DI Leach	
890-3434-2	PH11	Soluble	Solid	DI Leach	
890-3434-3	PH16	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 39449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-4	PH16	Soluble	Solid	DI Leach	
890-3434-5	PH16	Soluble	Solid	DI Leach	
890-3434-6	PH18	Soluble	Solid	DI Leach	
890-3434-7	PH18	Soluble	Solid	DI Leach	
890-3434-8	PH18	Soluble	Solid	DI Leach	
890-3434-9	PH18	Soluble	Solid	DI Leach	
MB 880-39449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3434-5 MS	PH16	Soluble	Solid	DI Leach	
890-3434-5 MSD	PH16	Soluble	Solid	DI Leach	

Analysis Batch: 39642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3434-1	PH11	Soluble	Solid	300.0	39449
890-3434-2	PH11	Soluble	Solid	300.0	39449
890-3434-3	PH16	Soluble	Solid	300.0	39449
890-3434-4	PH16	Soluble	Solid	300.0	39449
890-3434-5	PH16	Soluble	Solid	300.0	39449
890-3434-6	PH18	Soluble	Solid	300.0	39449
890-3434-7	PH18	Soluble	Solid	300.0	39449
890-3434-8	PH18	Soluble	Solid	300.0	39449
890-3434-9	PH18	Soluble	Solid	300.0	39449
MB 880-39449/1-A	Method Blank	Soluble	Solid	300.0	39449
LCS 880-39449/2-A	Lab Control Sample	Soluble	Solid	300.0	39449
LCSD 880-39449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39449
890-3434-5 MS	PH16	Soluble	Solid	300.0	39449
890-3434-5 MSD	PH16	Soluble	Solid	300.0	39449

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Lab Chronicle

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH11

Lab Sample ID: 890-3434-1

Date Collected: 11/10/22 09:10

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 03:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/15/22 16:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 14:59	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:40	CH	EET MID

Client Sample ID: PH11

Lab Sample ID: 890-3434-2

Date Collected: 11/10/22 09:20

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 03:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 16:05	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:46	CH	EET MID

Client Sample ID: PH16

Lab Sample ID: 890-3434-3

Date Collected: 11/10/22 09:40

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 04:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 16:26	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:51	CH	EET MID

Client Sample ID: PH16

Lab Sample ID: 890-3434-4

Date Collected: 11/10/22 09:50

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 04:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH16

Lab Sample ID: 890-3434-4

Date Collected: 11/10/22 09:50

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 16:47	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 02:57	CH	EET MID

Client Sample ID: PH16

Lab Sample ID: 890-3434-5

Date Collected: 11/10/22 10:00

Matrix: Solid

Date Received: 11/11/22 10:04

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	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 04:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 17:08	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 03:02	CH	EET MID

Client Sample ID: PH18

Lab Sample ID: 890-3434-6

Date Collected: 11/10/22 10:20

Matrix: Solid

Date Received: 11/11/22 10:04

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	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 05:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 17:28	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		10			39642	11/16/22 03:19	CH	EET MID

Client Sample ID: PH18

Lab Sample ID: 890-3434-7

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 05:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 17:49	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Client Sample ID: PH18

Lab Sample ID: 890-3434-7

Date Collected: 11/10/22 10:30

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 03:25	CH	EET MID

Client Sample ID: PH18

Lab Sample ID: 890-3434-8

Date Collected: 11/10/22 10:40

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 05:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 18:10	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		1			39642	11/16/22 03:42	CH	EET MID

Client Sample ID: PH18

Lab Sample ID: 890-3434-9

Date Collected: 11/10/22 10:50

Matrix: Solid

Date Received: 11/11/22 10:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 06:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40234	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39646	11/16/22 09:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39516	11/14/22 14:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39567	11/15/22 18:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39449	11/14/22 11:43	KS	EET MID
Soluble	Analysis	300.0		5			39642	11/16/22 03:48	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County 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	T104704400-22-24	06-30-23

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Ensolum

Job ID: 890-3434-1

Project/Site: Pecos Fed 1Y

SDG: Eddy County NM

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

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

Sample Summary

Client: Ensolum
Project/Site: Pecos Fed 1Y

Job ID: 890-3434-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3434-1	PH11	Solid	11/10/22 09:10	11/11/22 10:04	4'
890-3434-2	PH11	Solid	11/10/22 09:20	11/11/22 10:04	8'
890-3434-3	PH16	Solid	11/10/22 09:40	11/11/22 10:04	4'
890-3434-4	PH16	Solid	11/10/22 09:50	11/11/22 10:04	6'
890-3434-5	PH16	Solid	11/10/22 10:00	11/11/22 10:04	8'
890-3434-6	PH18	Solid	11/10/22 10:20	11/11/22 10:04	0.5'
890-3434-7	PH18	Solid	11/10/22 10:30	11/11/22 10:04	4'
890-3434-8	PH18	Solid	11/10/22 10:40	11/11/22 10:04	6'
890-3434-9	PH18	Solid	11/10/22 10:50	11/11/22 10:04	8'



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	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:	989-854-0852	Email:	BBelill@Ensolum.com, jim.raley@dyn.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Number:	03A1987014	☒ Routine ☐ Rush		Pres. Code											None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, NM	Due Date:	5 Day TAT	Parameters	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)								Cool: Cool	MeOH: Me		
Sampler's Name:	Yocoly Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm													HCL: HC	HNO ₃ : HN		
CC #:	1061084701														H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No												Wet Ice:	☒ Yes ☐ No	H ₃ PO ₄ : HP	
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	TMM-601												NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2		Na ₂ S ₂ O ₃ : NaSO ₃													
Sample Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:	5.6		Zn Acetate+NaOH: Zn													
Total Containers:		Corrected Temperature:	5.4		NaOH+Ascorbic Acid: SAPC													
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont									Sample Comments			
PH11	S	11.10.22	9:10	4'	G	1	X	X	X									
PH11	S	11.10.22	9:20	8'	G	1	X	X	X									
PH16	S	11.10.22	9:40	4'	G	1	X	X	X									
PH16	S	11.10.22	9:50	6'	G	1	X	X	X									
PH16	S	11.10.22	10:00	8'	G	1	X	X	X									
PH18	S	11.10.22	10:20	0.5'	G	1	X	X	X									
PH18	S	11.10.22	10:30	4'	G	1	X	X	X									
PH18	S	11.10.22	10:40	6'	G	1	X	X	X									
PH18	S	11.10.22	10:50	8'	G	1	X	X	X									

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
1		11/11/22 1009			
3					
5					

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3434-1

SDG Number: Eddy County NM

Login Number: 3434

List Number: 1

Creator: Stutzman, Amanda

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.	N/A	Refer to Job Narrative for details.
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: 890-3434-1

SDG Number: Eddy County NM

Login Number: 3434

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/14/22 08:39 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	

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/22/2022 3:23:06 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440



APPENDIX F

Email Correspondence

From: [Erick Herrera](#)
To: [Joseph Hernandez](#)
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)
Date: Tuesday, December 20, 2022 4:46:57 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Erick Herrera

Staff Geologist

281-777-4152

Ensolum, LLC

in f 

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, November 2, 2022 3:58 PM
To: Erick Herrera <eherrera@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

[**EXTERNAL EMAIL**]

Erick

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.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, November 2, 2022 11:54 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
<http://www.emnrd.nm.gov>



From: Erick Herrera <eherrera@ensolum.com>
Sent: Wednesday, November 2, 2022 11:52 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; 'CFO_Spill, BLM_NM' <blm_nm_cfo_spill@blm.gov>
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@ensolum.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

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

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between November 7th – November 11th, 2022:

Site Name: LVP #001
API: 30-015-42234
Incident Number: nAPP2135033453

Site Name: RDX 21-44
API: 30-015-41193
Incident Number: nAPP2115533694

Site Name: UCBH WW ROW
API: 30-015-24451, 30-015-24034
Incident Numbers: nAB1805133508, nAB1501655607, nAB1522341642, nAB1621453181, nAB1633639499

Site Name: Ross Draw Unit #034
API: 30-015-41578
Incident Numbers: nAPP2107554265, NAB1736055339, and NAB1528240224

Site Name: Yates Federal #001
API: 30-015-24602
Incident Number: NRM2011138650 and NAB1428734057

Site Name: Pecos Federal #001Y
API: 30-015-24875

Incident Number: nAPP2208846424

Site Name: MWJ Federal 1

API: 30-015-24262

Incident Numbers: nAB1503440420, nAB1524652333, and nAB1719940724



Erick Herrera

Staff Geologist

281-777-4152

Ensolum, LLC

in f 

PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC

8330 LBJ Freeway, Ste. B830

Dallas, TX 75243

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 171044

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 171044
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Variance for Liner installation at 4' is approved.	1/24/2023