

June 23, 2025

New Mexico Oil Conservation Division

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

Re: Closure Request

Northeast Drinkard Unit (NEDU) 164 Flowline NMOCD Incident Number NAPP2503455200 Lea County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of Hilcorp Energy Company (Hilcorp), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities performed at the Northeast Drinkard Unit (NEDU) 164 (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on excavation activities and laboratory analytical results, Hilcorp is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action and closure for Incident Number NAPP2503455200.

SITE BACKGROUND

The Site is located in in Unit A, Section 3, Township 21 South, Range 37 East, in Lea County, New Mexico (32.51800°, -103.144889°) and is associated with oil and gas exploration and production operations on private land.

On January 24, 2025, a Hilcorp operator observed approximately 0.25 barrels (bbls) of skim oil and 6.75 bbls of produced water in a field adjacent to the Site well pad. The release was the result of a compromised transition on the flowline associated with the production well due to overnight freezing temperatures. Upon discovery, the well was immediately shut-in, and a vacuum truck was immediately dispatched to the Site to recover the free-standing fluids. Approximately 5 bbls of released produced water and skim oil mix were recovered. Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) via a *Notification of Release* (NOR) and subsequently on a *Release Notification Form C-141* (Form C-141) on February 3, 2025. The release was assigned Incident Number NAPP2503455200.

SITE CHARACTERIZATION

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com



According to the findings presented in a Rice Environmental Consulting & Safety *NEDU Pilot Project Battery #1 Closure Report*, dated September 12, 2011, it was determined that during the groundwater study, depth to water in the area is approximately 56 feet below ground surface (bgs). The report and groundwater study is provided in Appendix A. The *NEDU Pilot Project Battery #1 Closure Report* was approved by the NMOCD on November 9, 2012, for Order Number 1RP-3083 / pSAD1416733466. Hilcorp is asking for a depth to water variance for the site, based on the previously approved *NEDU Pilot Project Battery #1 Closure Report*, dated September 12, 2011.

Depth to groundwater at the Site is is estimated to be greater than 50 feet bgs based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) permitted groundwater well with depth to groundwater data is well L-13546, located approximately 3,281 feet northeast of the Site. The groundwater well has a reported depth to groundwater of 75.88 feet bgs and a total depth of 88 feet bgs. Ground surface elevation at the groundwater well location is 3,521 feet above mean sea level (amsl), which is approximately 25 feet lower in elevation than the Site. There is an additional water well located 0.6 miles northeast of the Site (USGS well 323126103080701) with depth to groundwater data at 78.34 feet bgs. There are no regional or Site-specific hydrological conditions, such as surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a seasonal wetland, located approximately 4,693 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

Because the release was outside of the production area of the well pad, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was also applied to the top 4 feet of the Site, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

INITIAL SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On February 4, 2025, Ensolum initially evaluated the release based on visual observations and information provided by Hilcorp. Three preliminary assessment soil samples (SS01 through SS03) were collected within the release extent from depths ranging from 0.5 to 1.5 feet below ground surface (bgs) to assess for the presence or absence of impacted soil. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on



Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Appendix C.

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

Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated that BTEX and/or TPH concentrations exceeded the Site Closure Criteria. In addition, assessment soil samples SS01 through SS03 exceeded the reclamation requirement of 600 milligrams per kilogram (mg/kg) for chloride in the top 4 feet. Based on visible staining in the release area and laboratory analytical results for the assessment soil samples, further remediation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES AND LABORATORY ANLAYTICAL RESULTS

Between March 7 through April 17, 2025, Ensolum personnel were at the Site to oversee excavation activities based on visible staining and laboratory analytical results. Excavation activities were performed via back-hoe. To direct excavation activities, soil was field screened for VOCs and chloride as previously described. The excavation was completed to an approximate depth of 9 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS09 were collected from the floor of the excavation from depth ranging from 4 feet to 9 feet bgs. Composite sidewall samples SW01 through SW09 were collected from the sidewalls of the excavation at ground surface to 9 feet bgs, respectively. The excavation soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS09, and excavation sidewall samples SW01 through SW09 indicated all COC concentrations were compliant with the Site Closure Criteria. In addition, excavation samples are compliant with the reclamation requirement in the top 4 feet, where applicable. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 1,800 square feet in areal size. A total of 400 cubic yards of impacted soil was removed, transported, and properly disposed of at Sundance Services Facility in Eunice, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 24, 2025, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. In addition, excavation samples are compliant with the reclamation requirement in the top 4 feet, where applicable.



Based on the laboratory analytical results, no further remediation appears warranted. Hilcorp will backfill the excavation with material purchased locally, recontour the Site to match pre-existing site conditions and re-seed the disturbed area with the appropriate BLM seed mixture during the next possible growing season for optimal growth.

Excavation of impacted soil has mitigated impacts at this Site. Hilcorp believes these remedial actions are protective of human health, the environment, and groundwater. Depth to groundwater has been estimated to be greater than 50 feet bgs and no other sensitive receptors were identified near the release extent. Hilcorp is asking for a depth to water variance for the site, based on the previously approved *NEDU Pilot Project Battery #1 Closure Report*, dated September 12, 2011. As such, Hilcorp respectfully requests closure for Incident Number NAPP2503455200.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely, **Ensolum, LLC**

Kalei Jennings

Kalui Jennings

Senior Managing Scientist

Daniel R. Moir, PG (Licensed in WY & TX) Senior Managing Geologist

Appendices:

CC:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Billy Ginn, Hilcorp Energy Company

Appendix A NEDU Pilot Project Battery #1 Closure Report

Appendix B Referenced Well Records

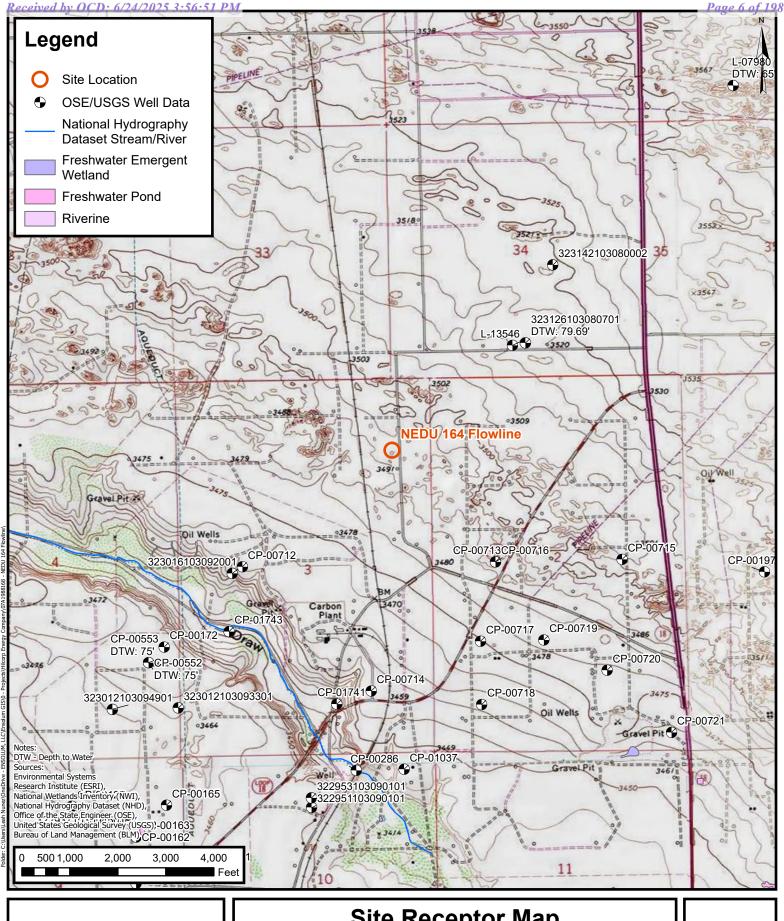
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Sample Notification



FIGURES





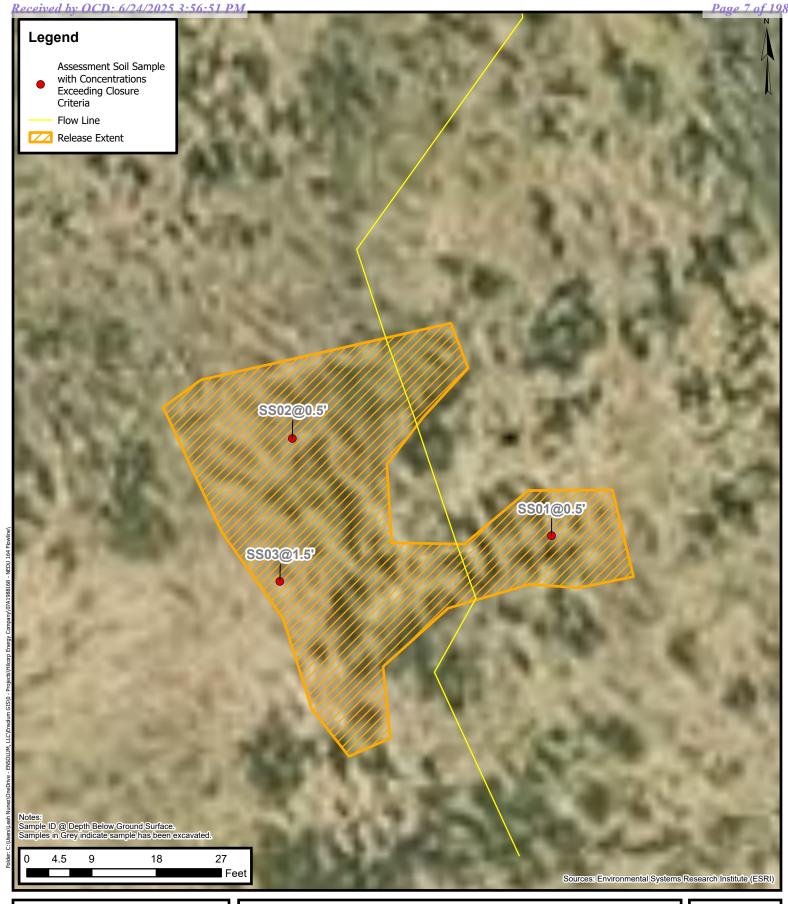
Site Receptor Map

Hilcorp Energy Company NEDU 164 Flowline

Incident Number: NAPP2503455200 Unit A, Section 03, Township 21 South, Range 37 East Lea County, New Mexico

FIGURE

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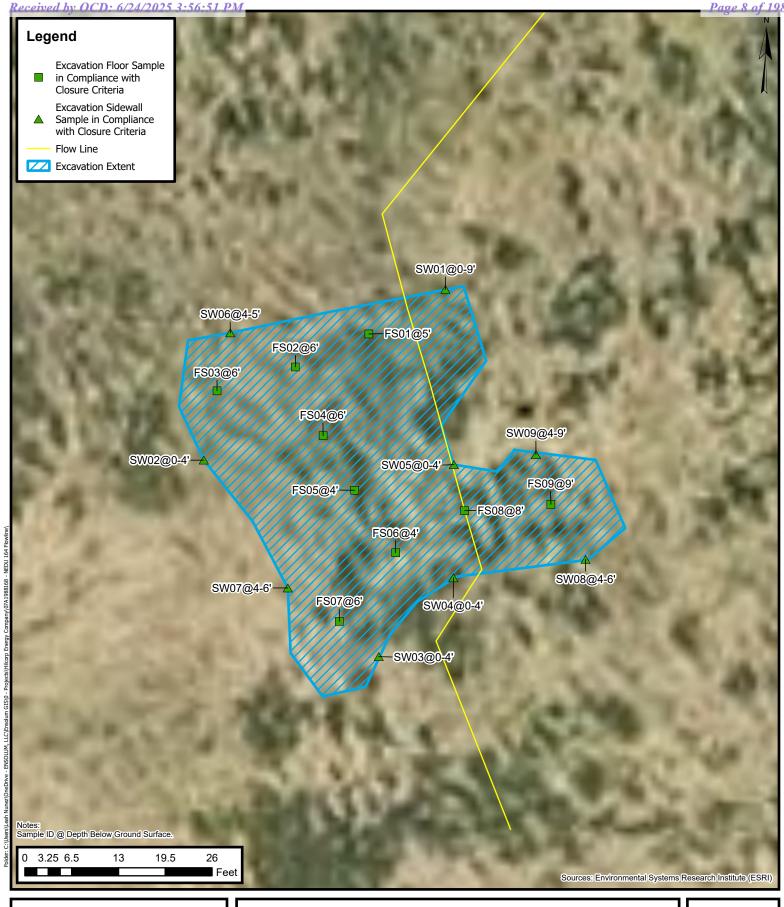




Assessment Soil Sample Locations

Hilcorp Energy Company
NEDU 164 Flowline
Incident Number: NAPP2503455200
Unit A, Section 03, Township 21 South, Range 37 East
Lea County, New Mexico

FIGURE 2





Excavation Soil Sample Locations

Hilcorp Energy Company
NEDU 164 Flowline
Incident Number: NAPP2503455200
Unit A, Section 03, Township 21 South, Range 37 East
Lea County, New Mexico

FIGURE 3

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TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS NEDU 164 Flowline Hilcorp Energy Company** Lea County, New Mexico Sample Toluene **Total BTEX TPH GRO** TPH DRO **TPH MRO Total TPH** Depth Benzene Ethylbenzene **Xylenes** Chloride Date Identification (feet bgs) (mg/kg) NMOCD Table I Closure Criteria (NMAC 10 NE NE NE 50 NE NE NE 2,500 10,000 19.15.29) Assessment Soil Samples 02/04/2025 25.1 604 6,730 <49 9 10,700 769 94.6 361 <49.8 0.5 79.1 3 800 9.780 02/04/2025 <1.00 2.76 10.3 <49.7 296 <49 7 296 425 **Excavation Floor Soil Samples** FS01 03/13/2025 <0.00200 <0.00200 <0.00200 <0.00399 < 0.00399 <49.7 <49.7 <49.7 <49.7 1,090 5 FS02 03/13/2025 <0.00202 <0.00202 <0.00202 <0.00404 < 0.00404 <50.0 <50.0 <50.0 <50.0 2,220 6 FS03 03/13/2025 <0.00202 <0.00202 <0.00202 < 0.00404 <0.00404 <49.8 <49.8 <49.8 <49.8 2,170 6 FS04 03/13/2025 <0.00201 <0.00201 <0.00201 <0.00402 < 0.00402 <49.7 <49.7 <49.7 <49.7 6 2.040 FS05 03/07/2025 4 <0.00201 <0.00201 <0.00201 <0.00402 <0.00402 <50.0 <50.0 <50.0 <50.0 <10.1 FS06 03/07/2025 4 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <49.8 <49.8 <49.8 <49.8 95.8 <0.00200 <0.00399 <49.7 <49.7 FS07 03/13/2025 6 <0.00200 < 0.00200 < 0.00399 <49.7 <49.7 664 03/13/2025 < 0.00199 <0.00199 < 0.00199 < 0.00398 < 0.00398 <49.6 <49.6 <49.6 <49.6 FS08 8 296 FS09 03/13/2025 <0.00199 <0.00199 < 0.00199 <0.00398 < 0.00398 <49.6 <49.6 <49.6 <49.6 801 **Excavation Sidewall Soil Samples** 03/13/2025 <0.00200 <49.9 SW01 0 - 9 <0.00200 <0.00200 <0.00399 <0.00399 <49.9 <49.9 <49.9 206 SW01 04/14/2025 0 - 4 <0.00202 <0.00202 <0.00202 < 0.00403 < 0.00403 <50.1 <50.1 <50.1 <50.1 161 SW02 04/14/2025 0 - 4 <0.00200 <0.00200 <0.00200 < 0.00399 < 0.00399 <50.5 <50.5 <50.5 <50.5 110 04/14/2025 0 - 4 < 0.00199 <0.00199 < 0.00199 < 0.00398 <0.00398 <49.9 <49.9 <49.9 <49.9 SW03 152 SW04 04/14/2025 0 - 4 <0.00198 <0.00198 <0.00198 <0.00396 <0.00396 <49.7 <49.7 <49.7 <49.7 122 SW05 04/14/2025 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <49.6 <49.6 <49.6 <49.6 0 - 4 109 <0.00200 <0.00401 SW06 04/14/2025 4 -5 <0.00200 <0.00200 < 0.00401 <49.8 <49.8 <49.8 <49.8 101 SW07 04/14/2025 4 - 6 <0.00202 <0.00202 <0.00202 < 0.00403 < 0.00403 <49.9 <49.9 <49.9 <49.9 104 SW08 04/14/2025 4 - 6 < 0.00199 <0.00199 <0.00199 < 0.00398 <0.00398 <49.8 <49.8 <49.8 <49.8 128 SW09 04/14/2025 4 - 9 <0.00198 <0.00198 <0.00198 < 0.00396 < 0.00396 <50.1 <50.1 <50.1 <50.1 674

Notes:

bgs: Below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

<: Indicates result less than the stated laboratory reporting limit (RL)

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

Concentrations in bold exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release or the

Reclamation Requirement where applicable

Text in grey indicates soil has been excavated



APPENDIX A

NEDU Pilot Project Battery #1 Closure Report

<u>District I</u> 625 N. French <u>District II</u> 301 W. Grand						New Mexi and Natura	ico LResources			Re		Form C-141 tober 10, 2003
District III 000 Rio Brazos District IV 220 S. St. France	Road, Azteo	, NM 87410		1220) Soutl	rvation Div h St. Franc e, NM 875	is Dr.		÷	District	Office i	o appropriate n accordance 116 on back side of form
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Source of Re		ction line/jun	ction box			1	our of Occurrenc	e		Hour of Dis	covery	
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By Whom?	Natalie (Date and H						
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If a Watercou	rse was Im	pacted, Descri	ibe Fully.*	;			N=7.1-	- \				
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E-mail Addre	ss: Nata	lie.gladden@a	apachecor	p.com		Conditions of	Approval:			Attached		ļ
Date: ttach Addit	ional Shee	ts If Necessa		(575) 390-4186								3083

NSAD (416 45 6 132 L



APACHE CORPORATION

P.O.Box 1849 Eunice, NM 88231 Phone 575.394.3159

NEDU Pilot Project Battery #1 Closure Report

API 30-025-39915

Release Date: September 12, 2011

Unit Letter D, Section 2, Township 21S, Range 37E

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

May 16, 2012

Geoffrey Leking New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Dr. Hobbs, NM 88240-9273

RE: TERMINATION REQUEST

Apache – NEDU Pilot Project Battery #1 AD

UL/D sec. 2 T21S R37E

API No. 30-025-39915

Mr. Leking:

Apache Corporation has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

Background and Previous Work

The site is an accidental discharge of produced water associated with the NEDU Pilot Project Battery #1. The injection line disconnected from a T joint within a junction box and released fluids into the Apache pipeline right-of-way and an area of pasture land located southeast of the junction. The line connection was repaired and NMOCD was immediately notified. An initial form C-141 was submitted by Apache Corporation on September 18, 2011 (Appendix A). The site is located north of Eunice, in unit letter 'D' of section 2, T21S, R37E in Lea County, New Mexico.

On September 9, 2011, RECS personnel initiated work on the NEDU Pilot Project Battery #1 (Figure 1). Surface soil samples were collected and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH analyses (Appendix C). Chloride ranged from 880 ppm (parts per million or mg/kg) to 2,120 ppm. TPH ranged from 49.8 ppm to 701 ppm.

The pasture area to the southeast was excavated to 9' below ground surface (bgs). On September 20, 2011, RECS personnel collected and field tested final samples from the excavation (Figure 2). The junction area and right-of-way to the south were excavated to 6' bgs. On September 21-22, 2011, RECS personnel similarly collected and field tested final samples from the excavation (Figure 3). Representative grab samples from the floor and walls of both excavations were submitted to a laboratory for chloride analysis. The floor samples did not exceed 176 ppm. The west wall of the excavations remained narrowly inside the affected area in order to maintain a

safe working distance from the Apache pipeline running to the south. Consequently, the west wall samples exceeded 48.0 ppm at four (4) sample points. In these 4 west wall samples, chloride ranged from 608 ppm to 3,920 ppm (Appendix C).

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavation was backfilled with clean soil (<16.0 ppm chloride, Appendix C) and contoured to the surrounding area. See Appendix B for photographs of field activities.

Conclusion

According to the New Mexico Office of the State Engineer and the United States Geological Survey (USGS), depth to groundwater in the area approximated 56 ft bgs (Appendix D). Due to Apache's removal of all impacted soils possible while safely working in proximity to a pipeline, Apache submits the final C-141 (Appendix E) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please call Natalie Gladden (575) 390-4186 if you have any questions or comments.

Sincerely,

Bruce Baker

Head Foreman

Bruce Baker

RECS

(575) 631-5157

Attachments:

Figure 1: Site Plat with Initial Sampling Lab Data

Figure 2: Site Plat with Southeast Excavation Lab Data Figure 3: Site Plat with ROW Excavation Lab Data

Appendix A: Initial Form C-141

Appendix B: Site Photographs

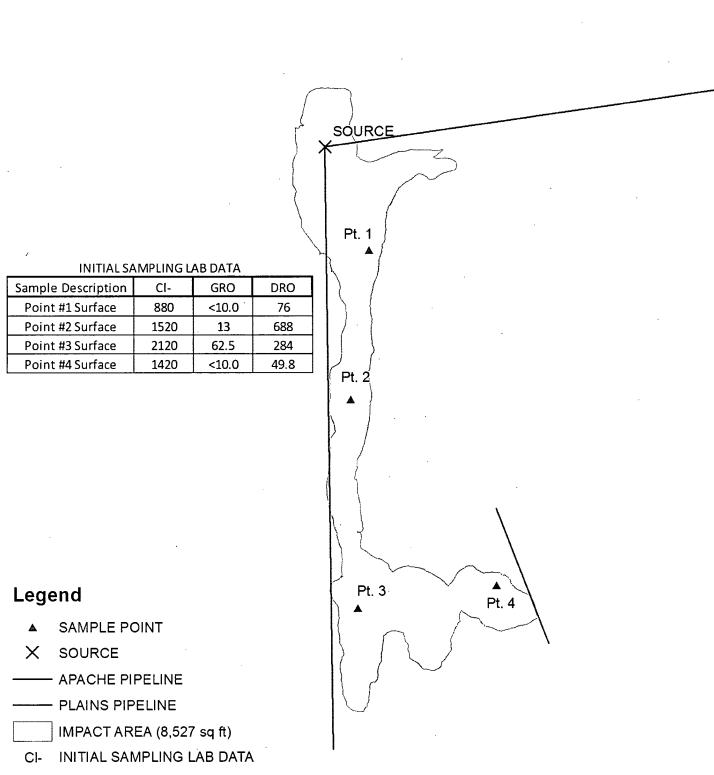
Appendix C: Laboratory Results Appendix D: Groundwater Study

Appendix E: Final Form C-141

Figures

P.O. Box 5630 Hobbs, NM 88241

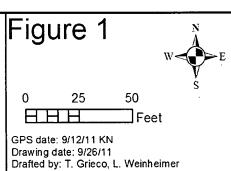
Phone 575.393.4411 Fax 575.393.0293





APACHE NEDU PILOT PROJECT BATTERY 1 AD

UL/H SECTION 3 T-21-S R-37-E



SOUTHEAST EXCAVATION LAB DATA

CI-

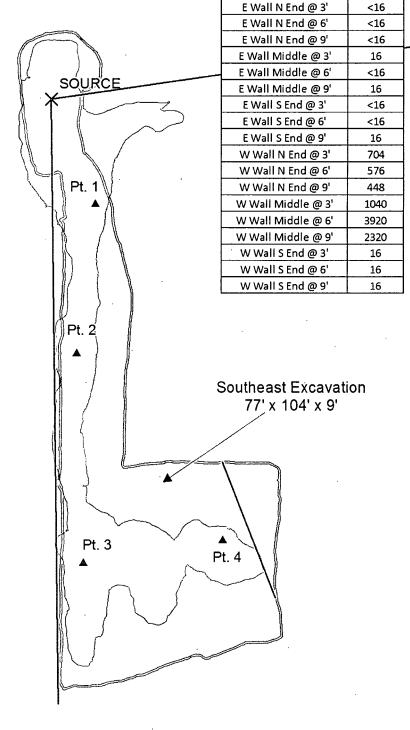
Sample Description

SOUTHEAST EXCAVATION LAB DATA

JOSTILAST EXCAVATION	DAD DATA
Sample Description	Cl-
NE Bottom	16
NW Bottom	<16
SE Bottom	16
SW Bottom	16
Middle Bottom	176
N Wall E. End @ 3'	<16
N Wall E. End @ 6'	<16
N Wall E. End @ 9'	48
N Wall Middle @ 3'	<16
N Wall Middle @ 6'	<16
N Wall Middle @ 9'	· <16
N Wall West End @ 3'	<16
N Wall West End @ 6'	<16
N Wall West End @ 9'	<16
S Wall E End @ 3'	<16
S Wall E End @ 6'	<16
S Wall E End @ 9'	16
S Wall Middle @ 3'	<16
S Wall Middle @ 6'	<16
S Wall Middle @ 9'	<16
S Wall W End @ 3'	<16
S Wall W End @ 6'	<16
S Wall W End @ 9'	<16

Legend

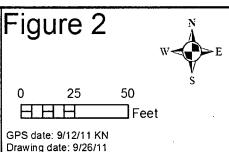
- SAMPLE POINT
- X SOURCE
- —— APACHE PIPELINE
- ----- PLAINS PIPELINE
- EXCAVATION
- IMPACT AREA (8,527 sq ft)
 - CI- INITIAL SAMPLING LAB DATA





APACHE NEDU PILOT PROJECT BATTERY 1 AD

UL/H SECTION 3 T-21-S R-37-E

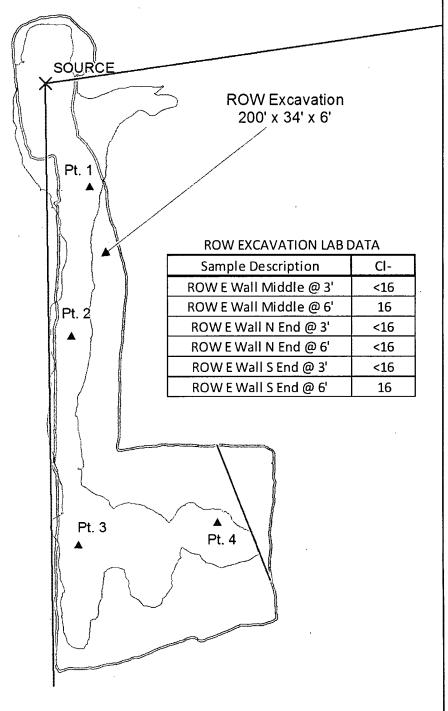


Drafted by: T. Grieco, L. Weinheimer

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ROW EXCAVATION LAB DATA

Sample Description	CI-
ROW N Wall Middle 3'	<16
ROW N Wall Middle 6'	<16
ROW N Bottom	<16
ROW S Bottom	16
ROW Middle Bottom	16
ROW W Wall S End 3'	992
ROW W Wall S End 6'	896
ROW W Wall Middle 3'	608
ROW W Wall Middle 6'	1170
ROW W Wall N End 3'	<16
ROW W Wall N End 6'	64



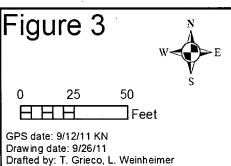
Legend

- ▲ SAMPLE POINT
- X SOURCE
- —— APACHE PIPELINE
- —— PLAINS PIPELINE
- EXCAVATION
- IMPACT AREA (8,527 sq ft)
 - CI- INITIAL SAMPLING LAB DATA



APACHE NEDU PILOT PROJECT BATTERY 1 AD

UL/H SECTION 3 T-21-S R-37-E



Appendix A Initial Form C-141

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	ation	and Co	rrective A	ction			
				······		OPERA		⊠ Ir	itial Report		Final Report
Name of Co							talie Gladden	26			
		9 Eunice, NN Pilot Projec		NEDU #165)			No. 575-390-418 e Production Fa				
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Surface Ow	ner McCa	island		Mineral C	wner I	NM		API	No. 30-025-	3991:)
F			r			OF REI					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Lin	e County		
D	2	21S	37E	1800'	FNL		125'	FWL	Lea		
			La	titude		_ Longitud	e				
				NAT	TIRE	OF RELI	r a sir				
Type of Rele	ase Produc	ed Water		IMI	UKE		Release 387	Volum	e Recovered (9	
		tion line/junct	ion box				four of Occurrence		nd Hour of Di	scover	.y
Was Immedi	ate Notice (Fiven?				9/12/11 If YES, To	Whom?	09/12/	[]		
, us minou			Yes [No 🔲 Not Re	equired	Geoffrey L		*			
By Whom?							kouer 9/12/11 343 ₀				
Was a Water	course Read		Yes 🔯	l No		If YES, Vo	lume Impacting t	he Watercourse	:		
If a Waterson	rece rung Im	pacted, Descr									
ii a watercoi	iise was iii	pacieu, Desci	ibe runy.								,
									•		
						•					
		em and Reme		n Taken.* e junction box. L	ina maa	ranairad	•				
Injection inte	ousted 100:	se it om me re	e mside m	e junction box. L	inc was	repaired.			•		
		45									
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*							· · · · · ·
NMOCD Gu	idelines wil	l be followed	to closure	-							
	C. H H :	··· C- ··· · · · · · · ·		:	1 - 4 - 41	- 1 C	1	1 -1 1/1		fo an	
regulations a	ll operators	miormation gi are required t	o report a	is true and comp nd/or file certain r	elease no	ne best of my otifications ar	knowiedge and u	nderstand that p tive actions for	ursuant to NA releases which	10CD 1 may	rules and endanger
public health	or the envir	ronment. The	acceptano	ce of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport" does not	relieve the op-	erator	of liability
or the enviro	nment. In a	ddition, NMC	adequatery CD accep	investigate and restance of a C-141	emediale report de	e contaminati oes not reliev	on that pose a three e the operator of i	eat to ground w esponsibility fo	iter, surface w r compliance	ater, n with a	ny other
		ws:and/ornegi							·		
. /		/	\mathcal{L}	0.1.1	1		OIL CON:	SERVATIO	N DIVISI	ON	
Signature:		aul	MU	rdair							
Printed Name	e: Natalie C	Gladden	•		1	Approved by	Environmental S ₁	pecialist:			
Title: EHS E	hwironment	tal Tech				Approval Dat	æ	Expirati	on Date:		
E-mail Addre	ess: <u>natalie.g</u>	gladden@apac	checorp.co	<u>m</u>		Conditions of	Approval:		Attacha	a	
Date: 9/18	2/11	Phone: 575	5_390_ <i>A</i> 19						Attache	u L	
* Attach Addi				,							

Appendix B Site Photographs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

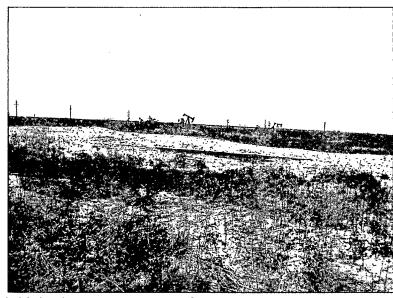
NEDU Pilot Project Battery #1 Unit Letter D, Section 2, T21S R37E



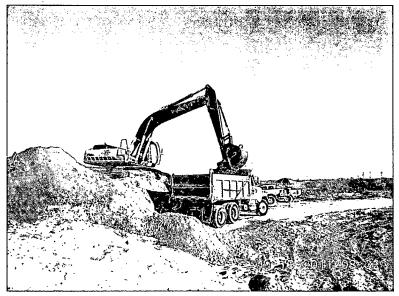
Initial release, facing south 9/12/2011



Initial release, facing north 9/12/2011



Initial release, south end, facing west 9/12/2011

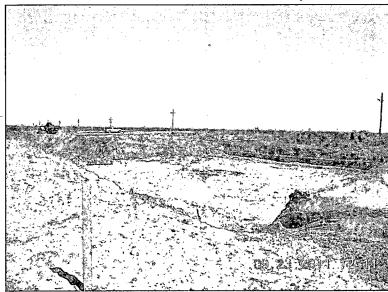


Exporting soil, facing north

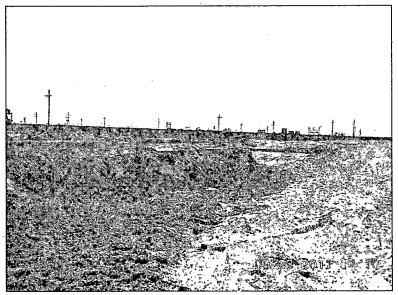
9/19/2011



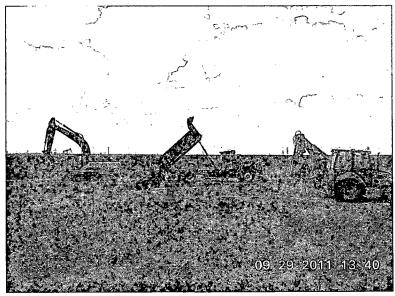
Final excavation at source, facing west 9/22/2011



Final excavation, facing north 9/23/2011

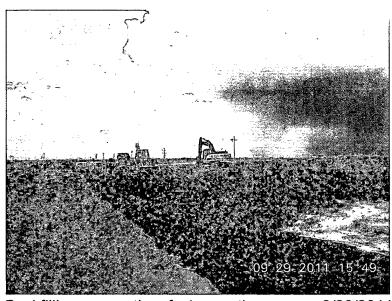


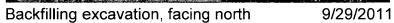
Final excavation, facing south 9/23/2011

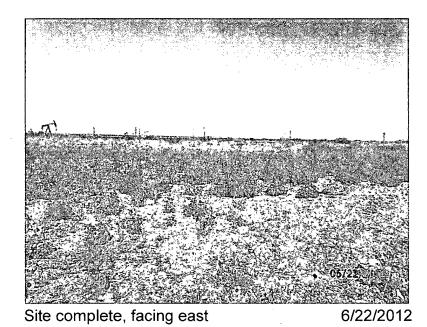


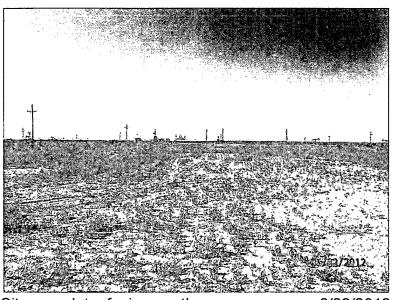
Importing backfill, facing west

9/29/2011

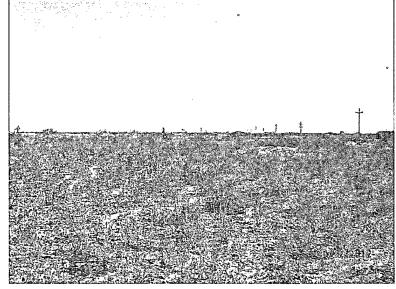








Site complete, facing south 6/22/2012



Site complete, facing north 6/22/2012

Appendix C Laboratory Results

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

09/12/2011

Sampling Date:

09/12/2011

Reported:

09/19/2011

Sampling Type:

Soil

Project Name:

NEDU PILOT PROJECT BATTERY #1

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: POINT #1 SURFACE (H101936-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	•				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/13/2011	ND	432	108 .	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	76.0	10.0	09/17/2011	ND	183	91.7	200	1.13	
Surrogate: 1-Chlorooctane	122	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	116	% 57.6-15	8						

Sample ID: POINT #2 SURFACE (H101936-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	09/13/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.0	10.0	09/17/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	688	10.0	09/17/2011	ND	183	91.7	200	1.13	
Surrogate: 1-Chlorooctane	116	% 55.5-15							
Surrogate: 1-Chlorooctadecane	104	% 57.6-15	8						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 09/12/2011

09/19/2011

NEDU PILOT PROJECT BATTERY #1

Project Number:

Project Name:

Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

09/12/2011

Jodi Henson

Soil

Sample ID: POINT #3 SURFACE (H101936-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	09/13/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	62.5	10.0	09/17/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	284	10.0	09/17/2011	ND	183	91.7	200	1.13	

Surrogate: 1-Chlorooctadecane

118%

57.6-158

Sample ID: POINT #4 SURFACE (H101936-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	09/13/2011	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: ab		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2011	ND	182	90.8	200	0.533	
DRO >C10-C28	49.8	10.0	09/17/2011	ND	183	91.7	200	1.13	
Surrogate: 1-Chlorooctane	116	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane

114%

57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name	(505) 393-2326 FAX (505) 393-2 : Apache			,	188		LL TO			-		-	ANAL	YSIS	RE	QUE	ST	 	
	r: Natalie Gladden			-	P.	O. #:		annonno sonco.											
Address:					Co	ompany:							S				İ		
City:	State: NM	Zip	:		At	tn:						:	Cations/Anions						
Phone #:	Fax #:				Αd	dress:				·			'n						
Project #:	Project Owne	r:			Cit	ty:			.,,	Σ		ェ	//s					1	
Project Name:					Sta	ate:	Zip:		Chlorides	15	×	Texas TPH	nc						
Project Location	n: NEDU Pilot Project Batt	ers	1	<u>, 7</u>	Ph	none #:			ŀË	801	BTEX	S	ati	TDS			į		
Sampler Name:					Fa	x #:			욷		BI	x		F					
FOR LAB USE ONLY				MATRIX	7	PRESERV.	SAMPL	ING	Ö	H		<u>e</u>	te			j]		
Lab I.D. H101936	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME					Complete						
1	Point #1 Surface	5	1	W			9-17-11	12:50	W	isol									
2	Point # 2 Surface	0	1	10	1_			1,00	11	U								 	
	Point #1 Surface Paint #2 Surface Point #3 Surface	4	1	w	<u> </u>			1:10	1,000	U						<u> </u>			
4	Pain # #4 Surface	G,	!	ir l	ļ		9-12-11	1,20	1/	W					<u>.</u>	ļ		 	
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		\vdash	-		1-					<u> </u>	ļ						ļ	 	
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	nd Damages. Cerdinal's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be									L	L			L	L	<u></u>	I	 	

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries

asiliates of successors arising out of related to the performance of	I PELAICES HELERHOEL BA C	artistal, regardless of whether edicit cight is based upon any of the above black	Ed leadons of concernse,
Relinquished By:	Date:	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	12-11		Fax Result: ☐ Yes ☑ No Add'l Fax #:
hyle Na -	Time: 15	god Denson	REMARKS:
Relinquished By:	Date:	Réceived By:	email results
	Times		Natalie.Gladden@usa.apachecorp.com;
	Time:		
Delivered By: (Circle One)	<u> </u>	Sample Condition CHECKED BY:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)			
Sampler - UPS - Bus - Other:		Cool Intact (Initials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 09/22/2011

09/26/2011

NEDU PILOT PROJECT BATTERY #1

Project Number: Project Location:

Analyte

Project Name:

SE EXCAVATION

NOT GIVEN

Sampling Date:

Sampling Type:

09/20/2011

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: NE BOTTOM (H102023-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Result

16.0

Result

<16.0

Result

16.0

Analyzed By: HM

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 09/23/2011

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Sample ID: NW BOTTOM (H102023-02)

Chloride, SM4500CI-B

Analyte

Analyte

Analyzed By: HM

Analyzed 09/23/2011

Method Blank ND

BS 432 % Recovery 108

True Value QC

400

RPD

Qualifier

Sample ID: SE BOTTOM (H102023-03)

Chloride, SM4500CI-B

Analyzed By: HM

09/23/2011

Analyzed

Method Blank ND

BS % Recovery 432

True Value QC 400

RPD

0.00

Qualifier 0.00

Sample ID: SW BOTTOM (H102023-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result Reporting Limit Chloride 16.0 16.0 09/23/2011

Analyzed

Method Blank ND

432

% Recovery 108

108

True Value QC 400

RPD 0.00 Qualifier

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Page 2 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

09/22/2011

Sampling Date:

09/20/2011

Reported:

09/26/2011

Sampling Type:

Chloride, SM4500CI-B

Soil

Project Name:

NEDU PILOT PROJECT BATTERY #1 SE EXCAVATION

Sampling Condition:

Cool & Intact

Project Number: Project Location:

mg/kg

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: MIDDLE BOTTOM (H102023-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/23/2011	ND	432	108	400	0.00	
Sample ID: N WALL E. END	@ 3' (H1020	023-06)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: N WALL E END	@ 6' (H1020	23-07)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Chloride			09/23/2011	ND	432	108	400	3.64	·
Chloride Sample ID: N WALL E END		23-08)	, ,	ND d By: AP	432	108	400	3.64	
Chloride Sample ID: N WALL E END	@ 9' (H1020	23-08)	, ,		432 BS	108 % Recovery	400 True Value QC	3.64 RPD	Qualifier
Chloride Sample ID: N WALL E END Chloride, SM4500CI-B	@ 9' (H1020 mg	(23-08) /kg	Analyze	d By: AP					Qualifier
Chloride Sample ID: N WALL E END Chloride, SM4500CI-B Analyte Chloride	@ 9' (H1020 mg Result 48.0	P23-08) //kg Reporting Limit 16.0	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride Sample ID: N WALL E END Chloride, SM4500CI-B Analyte	@ 9' (H1020 mg Result 48.0 LE @ 3' (H10	P23-08) //kg Reporting Limit 16.0	Analyze Analyzed 09/23/2011	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride Sample ID: N WALL E END Chloride, SM4500CI-B Analyte Chloride Sample ID: N WALL MIDDI	@ 9' (H1020 mg Result 48.0 LE @ 3' (H10	P23-08) //kg Reporting Limit 16.0 2023-09)	Analyze Analyzed 09/23/2011	d By: AP Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier Qualifier

Analyzed By: HM

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 09/22/2011

09/26/2011

SE EXCAVATION

Project Name: Project Number: NEDU PILOT PROJECT BATTERY #1

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Soil Cool & Intact

09/20/2011

Jodi Henson

Sample ID: N WALL MIDDLE @6' (H102023-10)

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit <16.0

16.0

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 09/23/2011

09/23/2011

Analyzed

Method Blank ND

432

BS

108

% Recovery

True Value QC 400

RPD 3.64 Qualifier

Sample ID: N WALL MIDDLE @ 9' (H102023-11)

Chloride, SM4500Cl-B Analyzed By: AP Reporting Limit Analyte Result Analyzed

Chloride <16.0 Method Blank ND

BS 432 % Recovery True Value QC

400

RPD

Qualifier 3.64

Sample ID: N WALL W END @ 3' (H102023-12)

Chloride, SM4500Cl-B Analyte

Analyzed By: AP

Method Blank BS

% Recovery

108

RPD True Value QC

Qualifier

<16.0

16.0 09/23/2011 ND

432

108

400

3.64

Sample ID: N WALL W END @ 6' (H102023-13)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

Chloride

Chloride

Result <16.0

Result

<16.0

Result

Reporting Limit Analyzed 16.0 09/23/2011 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

True Value QC

400

RPD Qualifier 3.64

Chloride

Sample ID: N WALL W END @ 9' (H102023-14)

Chloride, SM4500CI-B Analyte

mg/kg Analyzed By: AP

Analyzed Method Blank

09/23/2011

ND

BS

432

% Recovery

108

RPD

3.64

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported:

Chloride

Project Name:

09/22/2011

09/26/2011

NEDU PILOT PROJECT BATTERY #1

Project Number: Project Location: SE EXCAVATION NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact

09/20/2011

Soil

Jodi Henson

Sample ID: S WALL E END @ 3' (H102023-15)

Ч4500СІ-В	mg/k

•			
Analyte	•	Result	Re

eporting Limit <16.0 16.0

Analyzed 09/23/2011

Analyzed By: AP

Method Blank ND

BS 432

108

% Recovery

400

True Value QC

RPD 3.64 Qualifier

Sample ID: S WALL E END @ 6' (H102023-16)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP		
Analyte	Result	Reporting Limit	Analyzed	Method	

Chloride <16.0 16.0 09/23/2011

16.0

Result

<16.0

Method Blank ND 432

108

% Recovery

108

True Value QC 400

RPD Qualifier

3.64

Sample ID: S WALL E END @ 9' (H102023-17)

Chloride,	loride, SM4500Cl-B		
	Analyte		

Chloride

Chloride

Reporting Limit Result

16.0

Reporting Limit

16.0

Analyzed By: AP

Method Blank ND

BS 432

BS

432

BS

432

BS

% Recovery True Value OC

400

RPD

3.64

Qualifier

Sample ID: S WALL MIDDLE @ 3' (H102023-18)

Chloride,	SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

Analyzed 09/23/2011

09/23/2011

Analyzed

09/23/2011

Method Blank ND

% Recovery 108

True Value QC 400

RPD 3.64 Qualifier

Qualifier

Sample ID: S WALL MIDDLE @ 6' (H102023-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Result Reporting Limit Analyte Chloride <16.0 16.0

Analyzed

Method Blank ND

% Recovery 108

True Value QC 400

RPD 3.64

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any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service, In no event shall Cardinal be liable for incidental or consecutive including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

09/22/2011

Reported:

09/26/2011

NEDU PILOT PROJECT BATTERY #1 SE EXCAVATION

Project Number: Project Location:

Project Name:

NOT GIVEN

Sampling Date:

Sampling Type:

09/20/2011

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S WALL MIDDLE @ 9' (H102023-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND .	432	108	400	3.64	
Sample ID: S WALL W EN	- •	•							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
	•								
Sample ID: S WALL W EN	ID @ 6' (H1020	23-22)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	. ND	432	108	400	3.64	
Sample ID: S WALL W EN	ID @ 9' (H1020)23-23)							
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	NĐ	432	108	400	3.64	
Sample ID: E WALL N EN	D @ 3' (H1020	23-24)							
		/lea	Analyzed By: AP			•			
Chloride, SM4500CI-B	mg	/ kg							
Chloride, SM4500Cl-B Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

09/22/2011

09/20/2011

Reported:

Sampling Date:

Chloride, SM4500CI-B

09/26/2011

Sampling Type:

Soil

Project Name: Project Number: NEDU PILOT PROJECT BATTERY #1 SE EXCAVATION

Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

mg/kg

Sample Received By:

Jodi Henson

Sample ID: E WALL N END @ 6' (H102023-25)

- CHICHTELY BITTISCOCI B	11.9	7119	Analyzo	u Dy. Ai		·			
Analyte ·	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3:64	
Sample ID: E WALL N ENI	D @ 9' (H1020	23-26)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: E WALL MIDD	DLE @ 3' (H102	2023-27)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: E WALL MIDD	DLE @ 6' (H102	2023-28)							
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: E WALL MIDD	DLE @ 9' (H102	2023-29)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2011	ND	432	108	400	3.64	

Analyzed By: AP

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 09/22/2011

09/26/2011

NEDU PILOT PROJECT BATTERY #1

Project Name: Project Number:

SE EXCAVATION

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact

Soil

Jodi Henson

09/20/2011

Sample ID: E WALL S END @ 3' (H102023-30)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: E WALL S ENI	D @ 6' (H1020	23-31)				•			
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride .	<16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: E WALL S ENI Chloride, SM4500Cl-B	D @ 9' (H1020) mg,	•	Analyze	d By: AP					
, 					D.C.	0/ 0	T 1/21/2	200	01.6
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: W WALL N EN	ND @ 3' (H102)	023-33)							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/23/2011	ND	432	108	400	3.64	
Sample ID: W WALL N EN	ND @ 6' (H1026	123-34)							
Chloride, SM4500CI-B	mg,	•	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/23/2011	ND	432	108	400	3.64	
•									

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425

Fax To:

09/22/2011

Received: Reported:

Chloride, SM4500CI-B

09/26/2011 NEDU PILOT PROJECT BATTERY #1

Project Name: Project Number:

SE EXCAVATION

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

09/20/2011 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: W WALL N END @ 9' (H102023-35)

Result 448 43' (H10	Reporting Limit	Analyzed 09/23/2011	Method Blank	BS 432	% Recovery	True Value QC	RPD 3.64	Qualifier
	16.0	09/23/2011	ND	432	108	400	3 64	
) 3' (H10						100	5.01	
9 3' (H10								
	2023-36)							
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
1040	16.0	09/23/2011	ND	432	108	400	3.64	
9 6' (H10	2023-37)							
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3920	16.0	09/23/2011	ND	432	108	400	3.64	
D 9' (H10	2023-38)		1					
	•	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2320	16.0	09/23/2011	ND	432	108	400	3.64	
3' (H1020)23-39)							
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	09/23/2011	. ND	432	108	400	3.64	
	1040 1040	1040 16.0 2 6' (H102023-37) mg/kg Result Reporting Limit 3920 16.0 2 9' (H102023-38) mg/kg Result Reporting Limit 2320 16.0 3' (H102023-39) mg/kg Result Reporting Limit	1040 16.0 09/23/2011 2 6' (H102023-37)	1040 16.0 09/23/2011 ND 20 6' (H102023-37)	1040 16.0 09/23/2011 ND 432 20 6' (H102023-37)	1040 16.0 09/23/2011 ND 432 108 9 6' (H102023-37)	1040 16.0 09/23/2011 ND 432 108 400 20 6' (H102023-37)	1040 16.0 09/23/2011 ND 432 108 400 3.64 2 6' (H102023-37)

Analyzed By: AP

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Page 9 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 09/22/2011

09/26/2011

Project Name: Project Number: NEDU PILOT PROJECT BATTERY #1 SE EXCAVATION

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact

09/20/2011

Jodi Henson

Sample ID: W WALL S END @ 6' (H102023-40)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	e 16.0 16.0		09/23/2011	ND	432	108	400	3.64	
Sample ID: W WALL S EN	ID @ 9' (H1020	023-41)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2011	ND	432	108	400	3.64	

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	INP Name: Apache # Manager: Natalie Gladden #: Fax #: #: Project Owner: # Name: Excavation # Location: NEDI Pilot Project Birry # (# Name: Kyle Norman **PUSEONLY** **I NE Bottom											is reislay	9		·		ANAI	YSIS	RE	QUE	ST				
Project Manage	State: NM Zip: The #: Project Owner: Sect Name: SE Excavation Sect Location: NEDIT Privet Project Owner: Sect Name: Kyle Norman LAB USE ONLY AB I.D. Sample I.D. D7072 I WE Borton T WW Borton S SE Barton U SW Borton S Middle Borton), #:				HALF A RELIGE	<u> </u>											
Address:	ject Manager: Natalie Gladden dress: /: State: NM Zip: pne #: Fax #: ject #: Project Owner: ject Name:							Coi	mpa	any:			· · · · · · · · · · · · · · · · · · ·	1				S							
City:	State: NM	Zip	:					Att				de de seu haile este esta Plane de Leade de Adri	mt 14 m - 100 i					S							
Phone #:								Add	dres	 ss:		THE COLUMN TWO IS NOT	ner marethilipiniment nere ib sees					. <u>Ē</u>							
Project #:	Project Owner	:				·		City	/:				audaya basard Yaras asabar daras	1	≥		—	₹/8							
Project Name:	SE Exercises							Sta	te:			Zip:		es	2		ТРН	S.							
Project Location	" NEDU Pilot Project	B				Pho	one	#:				Chlorides	801	BTEX	I S	Cations/Anions	TDS								
Sampler Name:	Kyle Norman					Fax	(#:			***************************************		[음		BI	Texas	ပိ							,		
FOR LAB USE ONLY					MA	TRIX	(PRE	SEF	٧.	SAMPL	NG	Ö	표		(e)	te							
Lab I.D.	Sample I.D.	RAB OR (C)	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	отнев :	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME		 		•	Complete							
	NE Bottom	ري دي	1		1							9-20-11		1											
		ـجِنُ	1		1	1					_	9-20-11		1											
		<u> </u>	/		11/								9/10	1/	ļ										
	SW Bettern	<u>C7</u>	1										9:15	1/											
	Middle Boxton	7	. 1 .		- "	,					-	9-20-11		1/							ļ				
10	M . 4 6 . 1 6 . 6	<u>41.</u> 71.	4		1								9;25 9;30	1/											
Z.	NWALL FROM CO	12L	<u>+</u>										9:35	1/									*********		
4	NWAIL Middle @31	こと	+				-	-		\dashv		9-20-11		1/		·								***************************************	
Ϊ́D	Nwall Middle EE	5									9-20-11	4; 14:5	1			<u>-i</u> -									

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Relinquished By:	Date: 9-21-11 Receive	ved By:	ľ				Add'l Phone #: Add'l Fax #:
Mindel ~	Tipe: , 40 6	al Mendo	7/1	REMARKS:			
Relinquished By:	Date: Recei	ved By:		email result	ts		
<i>'</i>	Time:		l l	Natalie.Gla	adden(@usa	.apachecorp.com;
Delivered By: (Circle One)			-0112001.	_			n; Bbaker@rice-ecs.com; n; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:	400	☐ Yes ☐ Yes ☐ No ☐ No ☐ No		Knocmant			

#26

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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C		20) 0/3*/001 F	_											- · · · ·			 		
	Apacito	****		BI	LL TO	Terr W					NAL	YSIS.	RE	QUE	ST		 		
Project Manage	ty: State: NM Zip: None #: Fax #: Oject #: Project Owner: Oject Name: SE Excellation Oject Location: NEPU Filet Project Btry # Impler Name: Kyle Norman OR (LAB USE ONLY Lab I.D. Sample I.D. NATE WOOD WAS BURNATERNALES II Notall Middle P9! IZ Novall Wend @ 3' IJ Notall Wend @ 6' IJ Notall Wend @ 9' IS Swall Eend @ 6' IJ Swall Eend																		İ
Address:	Idress: ty: State: NM Zip: tone #: Fax #: oject #: Project Owner: oject Name: SE Excavation oject Location: NEPU Filet Project Btry #/ mpler Name: Kyle Norman MATRI MATRI MATRI MATRI MATRI MATRI MATRI MATRI					mpany:	****						2						
City:	State: NM	Zip) <u>:</u>		Att	n:							힏						
Phone #:	Fax #:				Ad	dress:							3	1					
Project #:		ř:			Cit	y:			(5)	Σ		工	//s						
Project Name:	SE Excavation				Sta	ite:	Zip:		Jes	15	×	으	티						
Sampler Name: Kyle Norman					Ph	one #:			Chlorides	801	BTEX	Texas TPH	Cations/Anions	TDS					
Sämpler Name:	ampler Name: Kyle Norman				Fax	x #:			ηc		BT	\X	Ö				ŀ		l
FOR LAB USE ONLY	OR LAB USE ONLY MATRIX					PRESERV.	SAMPLI	NG	C	ТРН		e	te (e						
Lab I.D. H102023	•	OR (C)	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME		L		,	Complete						
11	NNall Middle @9'	Ġ	1	10			9-20-11		V										
		67	1	V	<u>.</u>			4:55	1/										
13	Would Wend 66	Ú7	Ľ					10,00	11										
14.	Novall Wend @9'	4	1				9-20-11	10:05	.6/										
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. 17	SWALL Fond 69'	9	<u>L</u> .				9-20-11		i/										
15	Swall Middle @3	67	i					16:25	1										
	S Wall Middle 66	6	!	: /,	<u> </u>		9-2071	10:30	4										
20	Swish Middle @9	约	1	:/			7-20-4	10735	1/										
	d Damages. Cardinal's liability and client's exclusive remedy for a ig those for negligence and any other cause whatsoever shall be									ale									

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amiliates or successors arising out of or related to the performance	of services nerelinder by Cardinal, regardless of whether such claim is based upon an	of the above stated reaches of dinerwise.
Relinguished By:	Date: () / Received By:	Phone Result: Yes No Add'l Phone #:
N/ / A/	I TANK A MARKET AND A MARKET AN	Fax Result: ☐ Yes ☑ No Add'l Fax #:
Moder /V c	Times: 40 Col Den	REMARKS:
Relinguished By:	Date: Received By:	email results
ļ. ´	Time:	Natalie.Gladden@usa.apachecorp.com;
	1 mc.	
Delivered By: (Circle One)	Sample Condition : CH	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
	Cool Intact	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:	Ly TYES TYES	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
I	No No . /	dV^{1}

#26

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	Apache Sect Manager: Natalie Gladden Iress: State: NM Zip: Ine #: Fax #: Sect Want Froject Owner: Sect Location: NEDLI Prior Project Proyet/ Inpler Name: Kyle Norman RAB USE ONLY About Divining Section Bab I.D. Sample I.D. Sample																				 	
· · · · · · · · · · · · · · · · · · ·	Dompany Name: Apache Oject Manager: Natalie Gladden Iddress: Ity: State: NM Zip: Inone #: Fax #: Oject #: Project Owner: Oject Name: S E Excavarion Oject Location: MEDI Pilor Project Broyde Impler Name: Kyle Norman OR LAB USE ONLY Lab I.D. Sample I.D. MATRI AMOUNDANTER Sample I.D. Sample I.D. MATRI 21 S Wall Wend @ 3 G i V V V V V V V V V V V V V V V V V V						Æ.	S ĝ	BI	LL TO	1,34,3	į				NAL	YSIS	RE	QUE	ST	 	
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	impler Name: Kyle Norman					Fax			-] ∺		BI	Texas								
FOR LAB USE ONLY	R LAB USE ONLY MATR					X	!	PRES	SERV.	SAMPL	ING	O	Hd		<u>e</u>	te						
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analyses. All claims including those for negligence and any other cause whetsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.

Date: (a Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	Fax Result: ☐ Yes ☑ No Add'I Fax #:
70 0000	REMARKS:
Date: Received By:	email results
<u></u>	Natalie.Gladden@usa.apachecorp.com;
Time:	Matalic. Claddell @dsa.apachecorp.com,
	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Sample Condition CHECKED BY:	1 2condenance-ecs.com, boakerance-ecs.com,
Cool Intact (Inttiels)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Y C DYES TYES NO NO NO	ncondengince-ecs.com, Eweinnermer@nce-ecs.com
	Time: Date: Received By: Time: Sample Condition CHECKED BY: Cool Intact (Initials) DYes 1-Yes

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

r <u>. </u>	Apache Ject Manager: Natalie Gladden Jess: State: NM Zip: Ject Ware: Fax #: Ject Name: Ject Location: NEDU Piles Project Bry # Ject Location: NEDU Piles Project Bry # Ject Location: NEDU Piles Project Bry # Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman RLAB USE ONLY About Send Pois Apache Ject Name: Kyle Norman Ject Name: Kyle Norm							<u>` </u>	_												 	
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Sampler Name: Kyle Norman						Fax] 은		BI	exas	Ö	F						
FOR LAB USE ONLY	LAB USE ONLY MATRI					IX		PRES	ERV.	SAMPL	ING	O	ТРН		(e)	te						
Lab I.D. H 102 <i>6</i> 23	Sample I.D.	OR (C)	# CONTAINERS	GROUNDWATER. WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	отнея:	DATE	TIME		L		•	Complete		:				
31	Ewall Send @ 6'	157				1		i		9-20-11	1115	у/										
32		6	Ĺ			1				9-21-11	11:26	1										
	Wwall Nend &3'	62	1			Ī		_ _		9-20-11	125	1									 	
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substidiaries

Relinquished By:	Date: 〇 沙爾 (Received By:	Phone Result: Yes No Add'l Phone #:
I i/ /	Joseph And has been a second	Fax Result: ☐ Yes ☑ No Add'I Fax #:
Pivila	125:40 GOCH HUNDEN	REMARKS:
Relinguished By:	Date: Received By:	email results
7	Time:	Natalie.Gladden@usa.apachecorp.com;
		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)	Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other:	Cool Intact (Initials) Yes Yes No No	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240.

CONTRACTOR CONTRACTOR	(505) 393-2326 FAX (505) 393-247	6	S-CSTG0 R	mental manage	THE STATE OF THE S		**************************************				andr attended to an over allege	OR COMMON METHODOLOGY.	and a second	-47.74F17.61A	da Tulus/Klima (and properties and		let de maretaine	Editor metro	***************************************				tro s was sanaa
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Lab I.D. H 102 <i>0</i> 23 ———41	Sample I.D. W wall Send EU	G)RAB OR (C)OMP	/ # CONTAINERS	WASTEWATER	TICS	OIL	OTHER	ACID/BASE:	ICE / COOL	OTHER:	DATE GAVI	TIME 2205	Sall Jallas											

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16 /10	Time: 1/10	1/1//// 1/10	11 11 11	REMARKS:	
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Sampler - UPS - Bus - Other:		∐Մ ⊈Yes ⊈Yes	1 1 1		
Sampler - UPS - Bus - Other:		Yes Yes	dat		

7 Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476,

Page 16 of 16



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425 Fax To:

Received: Reported:

Project Name:

09/22/2011

09/23/2011

NEDU PILOT PROJECT BATTERY #1

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type: Sample Received By:

Sampling Condition:

Soil Cool & Intact

Jodi Henson

09/21/2011

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

mg/kg

Result

<16.0

Analyzed By: HM

Analyte Result <16.0

Sample ID: ROW N WALL MIDDLE 3' (H102022-01)

16.0

Reporting Limit

Analyzed 09/22/2011

Analyzed

09/22/2011

Method Blank ND

BŞ 432

108

% Recovery

400

True Value QC

RPD 0.00 Qualifier

Sample ID: ROW N WALL MIDDLE 6' (H102022-02)

Chloride, SM4500CI-B Analyte

Analyzed By: HM

Method Blank ND

BS 432 % Recovery

True Value QC

400

Qualifier

RPD 0.00

Sample ID: ROW N BOTTOM (H102022-03)

Chloride, SM4500CI-B

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: HM

Analyte Result <16.0

Analyzed 09/22/2011

Analyzed

09/22/2011

Method Blank ND

BS 432 % Recovery 108

108

True Value QC 400

RPD 0.00 Qualifier

Sample ID: ROW SOUTH BOTTOM (H102022-04)

Chloride, SM4500Cl-B

Analyte

mg/kg

Result

16.0

Analyzed By: HM

Method Blank

ND

BS 432

% Recovery 108

True Value QC 400

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celego Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received:

09/22/2011

Reported:

09/23/2011 NEDU PILOT PROJECT BATTERY #1

Project Name: NEDU PILOT
Project Number: NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/21/2011 Soil

Sampling Type: Sompling Condition: Co

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: ROW MIDDLE BOTTOM (H102022-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/22/2011	ND	432	108	400	0.00	
Sample ID: ROW W WALL	S END 3' (H1	02022-06)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/22/2011	ND	432	108	400	0.00	
Sample ID: ROW W WALL Chloride, SM4500CI-B	S END 6' (H1		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/22/2011	ND	432	108	400	0.00	
Sample ID: ROW W WALL	MIDDLE 3' (F	1102022-08)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/22/2011	ND	432	108	400	0.00	
Sample ID: ROW W WALL	MIDDLE 6' (F	1102022-09)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	09/22/2011	ND	432	108	400	0.00	

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: Reported: 09/22/2011

09/23/2011

NEDU PILOT PROJECT BATTERY #1

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

ling Type:

Sampling Condition:

Sample Received By:

Cool & Intact

09/21/2011

Soil

Jodi Henson

Sample ID: ROW W WALL N END 3' (H102022-10)

Chloride, SM4500CI-B

Chloride

mg/kg

<16.0

Analyzed By: HM

Analyte

Result Reporting Limit

16.0

Analyzed 09/22/2011

Method Blank ND BS 432 % Recovery 108

True Value QC 400

RPD 0.00

Qualifier

Sample ID: ROW W WALL N END 6' (H102022-11)

Chloride, SM4500CI-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 64.0 16.0 09/22/2011 ND 432 108 400 0.00

Cardinal Laboratories

*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name:		93-2326 FAX (303) 393-24/6 (325) 673-7001 FAX (325)673-702							,		ANAL	YSIS	RE	QUE	ST							
Project Manager	Natalie Gladden					P.0	D. #:			·····												
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Sampler Name:	Kyle Warman		<u> </u>				x #:				물	~ T	BT	Texas	O	\vdash				1		Ì
FOR LAB USE ONLY	/			MAT	RIX		PRES	ERV.	SAMPL	ING	O	TPH		Te	e					Ì		l
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	OTHER:	DATE	TIME					Complete							
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7	IN Wwall Send 5'	67 1	-	7				-		10,30			<u></u> -									
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	itW Wwall Middle 6'	61		1/					9-21-11	10:50	1											
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Sampler - UPS - Bus - Other:	O H No H No	777T	
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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:				BILL TO				*******			-	ANAI	YSIS	RE	QUE	ST	 -						
Project Manager:	Natalie Gladden						P.	O. #	:			*********											
Address:							C	omp	any	:							2					İ	
City:	State: N	M Zir	:				A	tn:									Cations/Anion						I
Phone #:	Fax #:						A	ddre	ss:								4 L						I
Project #:	Project O	vner:					Ci	ty:					S	Σ		エ	//s						
Project Name:							St	ate:			Zip:		ě	15	×	린	o						1
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Sampler Name:	hole Namas			_			Fa	x#:					물	~ ⊤	В	xa		-					1
FOR LAB USE OHLY	/				MA	TRIX		PR	ESE	RV.	SAMPLI	NG	O	ď		Ге	ete					ĺ	
Lab I.D. H102022 -11	Sample I.D. BOW Wwell Nend 6'	(G)RAB OR: (C)OMP	- # CONTAINERS	GROUNDWATER	Noor V	OIL	OTHER:	ACID/BASE:	ICE / COOL	отнея:	DATE 9-21-11	TIME 11:30	V	•			Complete						
analyses. All claims including service. In no event shall Care	Duninges. Cordinal's liability and client's exclusive reme those for negligence and any other cause whatsoever's driving before to incidental or consequental damages; is out of or related to the performance of services hereince. Date: 9-2	hall be deeme icluding witho ler by Cardina	d waived ut limitati I, regard	unless on, busi ess ol w	made in ness inf hether	writing a erruption such clai	and rec s, loss	eived b of use,	y Card or loss	inal w	ithin 30 days after ohts incurred by	r completion of ti	he applicat irles se.	ole □ Ye	s (2)	No	J'bbA	Phone	#:			 	

alligates of successors arising out of or related to the performance	e of services nereunder by to	ard hall regardless of whether such challet is based upon any of the above stated re	asolis of otherwise.
Relinquished By:	Date: 9-22-11	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
, //	1020000	1 /	Fax Result: ☐ Yes ☐ No Add'l Fax #:
hyle h	Time: 40	Will Glendon	REMARKS:
Relinquished By:	Date:	Received By:	email results
		. V	Natalia Claddon@usa anachasara com:
	Time:		Natalie.Gladden@usa.apachecorp.com;
			Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)		Sample Condition CHECKED BY:	
		Cool Intact (Ihitlals)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:		Cool Intact (Initials)	Theoriaci whoe-eos.com, Ewell me limer whoe eos.com
		TO LINOLING 1 Old 1	<u> </u>

#26

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 09/22/2011

09/26/2011

Project Name: Project Number:

Project Location:

NEDU PILOT PROJECT BATTERY #1

NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: ** (See Notes)

09/22/2011

Jodi Henson

Soil

Sample ID: ROW E WALL MIDDLE @ 3' (H102029-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400	0.00	
Sample ID: ROW E WALL	. MIDDLE @ 6'	(H102029-02)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2011	ND	432	108	400	0.00	
Sample ID: ROW E WALL	. N END @ 3' (H	(102029-03)							
-	. N END @ 3' (H		Analyze	d By: AP					
	-		Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: ROW E WALL Chloride, SM4500CI-B Analyte Chloride	mg	/kg	<u> </u>		BS 432	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Chloride, SM4500CI-B Analyte	Result	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result	Reporting Limit 16.0 1102029-04)	Analyzed 09/23/2011	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: ROW E WALL	Result <16.0 N END @ 6' (H	Reporting Limit 16.0 1102029-04)	Analyzed 09/23/2011	Method Blank ND		•	•		Qualifier Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425 Fax To:

Received:

09/22/2011

Reported:

09/26/2011

Sampling Date:

09/22/2011

Chloride, SM4500CI-B

Sampling Type:

Soil

Project Name:

NEDU PILOT PROJECT BATTERY #1

Sampling Condition:

** (See Notes)

Project Number: Project Location: NONE GIVEN NOT GIVEN

mg/kg

Sample Received By:

Jodi Henson

Sample ID: ROW E WALL S. END @ 3' (H102029-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2011	ND	432	108	400 ·	0.00	
Sample ID: ROW E WALL	. S END @ 6' (H	102029-06)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2011	ND	432	108	400	0.00	

Analyzed By: AP

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celeg & Keene

Page 3 of 5

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	: Apache		BILL	TO			1	ANAL	YSIS	REQUE	ST		
Project Manager	r: Natalie Gladden		P.O. #:										
Address:			Company:					က္ခ					
City:	State: NM	Zip:	Attn:	·	1			티				` [
Phone #:	Fax,#:		Address:		1			ij			1		
Project#;	Project Owner	:	City:		<u>,</u> , ≥		ェ	1/S					
Project Name:			State: Zip:		5 E	×	ТРН	äl					
Project Location	n: NEDU Pilot Project B	attoy #1	Phone #:		Chlorides PH 8015	BTEX	S	Cations/Anions	TDS				
Sampler Name:	Kivle Norman	,	Fax #:		읟	В П	exas	ΰ	F				
FOR LAB USE CHLY	,	MATRIX	PRESERV S	AMPLING	티		e le	e			1 1		
Lab I.D. <u>H 10<i>302</i>9</u>	Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER SOIL OIL SLUDGE		ATE TIME				Complete					
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2	SOW EWALL Middle 66'		<u> </u>	211 10:10 4	-								
3	BOW EWALL N' and E3'	1914 <u>- 14-</u> 1		2-1/10/30 V	<u> </u>	ļ							
4	BOW EWAI Novel 606	214-1-19	1	2-11 18:50 4	\mathcal{A}								
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	BOW EWALL SON 66		<u> </u>	- 11 17 112									

analyses. All claims: including those for negligence and any other cause whatsoever shall be deemed waved unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no even shall Cardinal be liable to incidental or consequental damages; including whoul livrace in the exercises in one will be deemed waved unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no even shall Cardinal be liable to incidental or consequental damages; including whoul livrace in business interruptions loss of use, or loss of profits incurred by client, its subsociaties affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such client is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7-22-11 Received By:	Phone Result: Yes No !Add'l Phone #:
		Fax Result: 🗆 Yes 🖾 No Add'l Fax #:
Thinks Non	Time: 15 Klade Muson	REMARKS:
Relinquished By:	Date: Feccived By:	email results
	Time:	Natalie.Gladden@usa.apachecorp.com;
		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)	Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other:	Cool Intact (Initials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
	No No CITY	

+26

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Analytical Results For:

APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

09/29/2011

Reported:

10/03/2011

Project Name: Project Number: NEDU PILOT PROJECT BATTERY #1

Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

** (See Notes)

Jodi Henson

09/29/2011

Sample ID: BACKFILL (H102092-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2011	ND	448	112	400	3.51	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celego Keine

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Company Name	: Apache							k	3//	LL TO					/	ANAL	YSIS	RE	QUE	ST			
Project Manager	· Natalie Gladden					P.	0.#	:				T											
Address:						C	omp	any:	:]				S						1	Ì
City:	State: NM	Zip:				AI	tn:					1				o.							1
Phone #:	Fax #:					Αc	idre	ss:								١n							
Project #:	Project Owne	:			City:] ,,	Σ			s//		:			1		İ			
Project Name:						St	ate:			Zip:		6	10	×	TPH	ü					İ	-	l
Project Location	"NEDU Pilot Project	7+ Btry Phone #:										Chlorides	TPH 801	BTEX	S	Cations/Anions)S				- 1	l	l
Sampler Name:	hule Norman					Fa	x #:					[]은	ω -	BI	exas	ပိ	TD						1
FOR LABIUSE ONLY	/		Ī	MA	TRIX		PR	ESE	₹٧	SAMPLI	NG] 🖸	立		(e)	e							ı
Lab I.D.	Sample I.D.	(G)RAB OR (C)OI # CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete							
1	Back Fill	<u>G</u> 1	-	V						9-29-11	1:50	V								!			
CLEASE NO. G. LONDON	d Damages, Cardinal's liability and clients excusive remedy for																						

PLEASE NOTE: Intellify and Carmayes, Cardinal's labelity and clients exclusive remedy for any claim ansing whether passed in conflict on tort, shall be limited to the amount paid by the client for the analyses, All claims including those for negligence cand any differ cause whitsoever shall be desiried violved unloss made in writing and received by Cardinal Writin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without jumilation, business interruptions, loss of use, or loss of profits incurred by client, ins subsidiaries affiliates or successors arising out of or related to the nerformance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 📝	Date: 9-24./ Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
. / /	102273	Fax Result: ☐ Yes ☑ No Add'l Fax #:
hopkan	Ting: 12 all henson	REMARKS:
Relinquished By:	Date: Received By:	email results
	Time:	Natalie.Gladden@usa.apachecorp.com;
<u> </u>		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)	Sample Condition CHECK	
Sampler - UPS - Bus - Other:	Cool Intact (Ihit)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

#26

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Appendix D Groundwater Study

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

Released to Imaging: 8/4/2025 12:59:14 PM

STATE OF THE STATE

Apache	NEDU Pilot Project Battery #1							
Company	-		site name	name				
	H Unit Letter	3 Section	T21S Township	R37E				
	Groundwater Depth:		6	_ ft				
Compiled by:	Lara Wei	nheimer	Date	:9/13/2011				
Comments:								
				20S 37E				
	33	34	35 °					
			o 52'					
	-	(☆		21S 37E				
	4 75'®	0 3	2					
	58' 0							
	9	10	11					
				·				
	·							



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

No records found.

PLSS Search:

Section(s): 33, 34, 35

Township: 20S

Range: 37E

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



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

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

(quarters are smallest to largest) (NAD83 UTM in meters) QQQ Depth Depth Water basin Use County 64 16 4 Sec Tws Rng Y Well WaterColumn

POD Number CP 00552 STK LE 04 21S 37E 672700 3598022* 75 CP 00553 STK LE 21S 37E 672700 3598022* 75 90 15 Average Depth to Water: 75 feet

Minimum Depth: 75 feet

Maximum Depth: 75 feet

Record Count: 2

PLSS Search:

Section(s): 2, 3, 4, 9, 10, 11 Township: 21S

Sub

Range: 37E

*UTM location was derived from PLSS - see Help

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

Page 1 of 1

USGS 323016103092001 21S.37E.03.31221

Groundwater. GO] Available data for this site Field measurements Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°30'40", Longitude 103°19'21" NAD27 Tab-separated data Land-surface elevation 3,424.10 feet above NGVD29 The depth of the well is 36 feet below land surface. Graph of data This well is completed in the Alluvium, Bolson Deposits Reselect period and Other Surface Deposits (110AVMB) local aquifer. USGS 323016103092001 215.37E.03.31221 17.0 3487.0 Depth to water level, feet below land surface 18.0 3406.0 19.8 3405.0 20.0 3484.0 21.9 3483.0 22.0 3402.0 23.0 3401.0 24.8 3400.0 25.0 1976 1979 1982 1985 1988 1991 ---- Provisional Data Subject to Revision --

USGS 322937103094501 21S.37E.09.241211

GO] Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°29'49", Longitude 103°09'45" NAD27 Land-surface elevation 3,466.60 feet above NGVD29 Tab-separated data The depth of the well is 90 feet below land surface. Graph of data This well is completed in the Alluvium, Bolson Deposits Reselect period and Other Surface Deposits (110AVMB) local aquifer. USGS 322937103094501 215.37E.09.241211 55.0 3411.0 Depth to water level, feet below land 56.0 3410.0 57.0 3409.0 58.0 3408.0 59.0 3407.0 60.0 3406.0 61.0 3405.0 62,0 3404,0 63.0 3403.0 5 64.0 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 1997 ---- Provisional Data Subject to Revision

USGS 323114103130601 20S.37E.35.414234

Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°31'37", Longitude 103°13'06" NAD27 Land-surface elevation 3,469.90 feet above NGVD29 Tab-separated data The depth of the well is 63 feet below land surface. Graph of data This well is completed in the Alluvium, Bolson Deposits Reselect period and Other Surface Deposits (110AVMB) local aquifer. USGS 323114103130601 205.37E.35.414234 51.0 Depth to water level, feet below land surface 3418.0 52.0 3417.8 53.0 3416.0 54.0 3415.0 55.8 3414.0 56.0 1964 1970 1976 1982 1988 1994 2000 2006 1958 -- Provisional Data Subject to Revision

Appendix E Final Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

Form C-141

side of form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

Release Notification and Corrective Action

						OPERA	ΓOR		Initial	al Report	\boxtimes	Final Report
Name of Company Apache Corp.						Contact Natalie Gladden						
Address P.O. Box 1849, Eunice, NM, 88231						Telephone No. (575) 390-4186						
Facility Name NEDU Pilot Project Battery #1 (NEDU #165)						Facility Type Production Facility						
Surface Owner McCasland Mineral Owne					wner	State of NM			Lease N	No. 30-025-	39915	
				LOCA	TION	N OF REI	LEASE					
						h/South Line Feet from the East/West Line County			County			
D	2	21S	37E	1800	FNL 125 FWL Lea							
LatitudeLongitude												
				NAT	URE	OF RELI	EASE					
Type of Relea		uced water					Release 387 bbl			Recovered (
Source of Rel	lease Inje	ection line/jun	ction box			Date and H 9/12/11	our of Occurrenc	е	Date and 9/12/11	Hour of Dis	covery	
Was Immedia	ate Notice (Yes \Box	No 🗌 Not Re	auired	If YES, To Geoffrey L						
By Whom?	Natalie			_	<u>'</u>	Date and H		343 nm				
Was a Watero						Date and Hour 9/12/11 343 pm If YES, Volume Impacting the Watercourse.						
			Yes 🛚	No			1 2					
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*									
							DTW=	56				
Describe Cau						id			-			
injection line	busted 100s	se from the te	e mside inc	e junction box. Li	ine was i	repaired.						
Describe Area	a Affected	and Cleanup A	Action Tak	en.*								
							. ft. Impacted so					
							cavation extende excavations and s					
				an soil and conto				ciii io a	Commicicia	ii iabbiatory	ioi ciii	Jilde
I hereby certi	fy that the i	nformation gi	ven above	is true and compl	lete to th	e best of my	knowledge and u					
							nd perform correc					
public health	or the envi	ronment. The	acceptanc	e of a C-141 repo	rt by the	: NMOCD m	arked as "Final Ro on that pose a thro	eport" de	oes not reli	ieve the oper	ator of	liability
							e the operator of r					
federal, state,							<u>.</u>					
OIL CONSERVATION DIVISION												
Signature:	had	aluel	1 10	ddu			900) HH	م د د ها	Yor	AAL	
1		70000			1	Annroved by	District Supervise		N		***7	ጎ
Printed Name	:: <u>Natali</u>	e Gladden					District Supervise	Enviro	onmerita	l Speciali	st	4
Title: EH&	&S Environ	mental Tech			I	Approval Dat	e: W/9/12	· E	Expiration	Date:		
E-mail Addre	ss: Nata	lie.gladden@	apachecor	o.com		Conditions of	Approval:	-				
1.	101						It has a seed	**		Attached		2-00
Date:	ional Shee	ets If Necess		(575) 390-4186						1RP-6	- 14-	3083



APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NUMBER (WELL NUMBER)						OSE FILE NUMBER(S)				
Z	MW-1										
Ĕ	WELL OW	NER NAME	S)		PHONE (OPT	IONAL)	-		-		
SC.	Conoco	Phillips							£		
GENERAL AND WELL LOCATION	HC 60, E		G ADDRESS		CITY Lovington		STATE ZIP NM 88260				
MQ			DEGREE	S MINUTES SECON	VDS						
ALAN	LOCATION LATITUDE 32			31 25.98 _N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
ER	(FROM GPS)		ONGITUDE 103	8 11.85	W	* DATUM RE	QUIRED: WGS 84				
I. GEN	Warren		WELL LOCATION TO STREE	ET ADDRESS AND COMMON LANDMARKS - P	LSS (SECTION, T	OWNSHIIP, RANG	JE) WHERE AVAILABLE				
	UCENSE N WD-145	and the same of th	John W. White	DRILLER		1 10	White Drilling				
	DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE HOLE 6/17/2014 88.0						TH (FT) DEPTH WATER FIRST ENCOUNTERED (FT) 72.0				
z	COMPLETED WELL IS: C ARTESIAN C DRY HOLE SHALLOW (UNCONPINED) STATIC WATER LEVEL IN COMPLETED WELL (FT) 75.88								FT)		
110	DRILLING	FLUID	€ AIR	C MUD ADDITIVES - SI	PECIFY:						
MA	DRILLING			C HAMMER C CABLE TOOL		R - SPECIFY:					
FOR				CASING MATERIAL AND/OR	1	ac - or pour tr	T	T			
Z	DEPTH (feet bgl) FROM TO DIAM (inches)		BORE HOLE	GRADE (include each casing string, and note sections of screen) CASING MATERIAL AND/OR CASING CONNECTOR C			CASING INSIDE DIAM.	CASING	A Committee of the Comm	SLOT	
2. DRILLING & CASING INFORMATION								(inches)		SIZE inches)	
40	0.0	56.0	6,0	Sch. 40 PVC	Threads	S 40	2.0	1/4"			
NG	56.0	86.0	6.0	Sch. 40 PVC	Threads	le/	2.0	1/4"	.0	010	
3	1					-7m 107				711	
DIR						6.4					
14										1 1	
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- 1					ry maj						
- [8										
						77 () 1		17 (2) 597	= 1	2,10	
7	DEPTH (feet bgi) BORE HOLE DIAM. (inches) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTE								METHOD OF		
RIA	FROM 52.0	88.0	6.0	20/40 Sand							
AT.	52,0	48.0	6.0	Bentonite Chips	6 Sacks		The second second	Hand Mix			
RM	48,0	8.0	6.0	Type 2 Portland Cement w/5			-	Hand Mix			
3	8.0	0.0	6.0	Cement Cement	2000 miles and the second seco		-	Pump Mix w/Trems			
ANNULAR MATERIAL	0.0	0.0	0.0	Centent		1.5976 Pun		Pump Mix w/Trema			
3. A		1						7		-	
" t							: A				
POD	OGE P.	2747 1000					- X	Ge de de la la la la la la la la la la la la la			
_	OSE INTER	USE USE		POD NUMBER			WELL RECORD	& LOG (Versi	on 06/08/20	12)	
				POUNUMBER		IKNN	TUMBER		10		
LUCA	ATION								PAGE 1 OF	2	

	DEPTH	(feet bgl)				ESTIMATED
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZOI (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES/NO)	YIELD FOR WATER- BEARING ZONES (gpm)
1	0.0	14.0	14.0	Light Brown Sand	CAGN	4 L. T.
	14.0	23.0	9.0	Yellowish & whiteish layers of tight packed sand	CYON	
	23.0	47.0	24.0	Pinkish brown sand	CYEN	
	47.0	73.0	26.0	Reddish brown sand/sandstone	CYEN	
	73.0	88.0	15.0	Reddish sandy shale/clay	CY CN	
1		,			CYCN	
HYDROGEOLOGIC LOG OF WELL					CYCN	-
40	1				CYCN	Tem.
90					CYCN	
IC.					CYCN	
500					CYCN	
EO]	37				CYCN	
ROC	T T				CYCN	
HYD					CYCN	
4	4				CYCN	
			200	- Zeritati	CYCN	- Marian
					CYCN	
1					CYCN	-
1					CY CN	-
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ı					CYCN	
t	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED	-
	C AIR LIFE	CB	AILER ()	OTHER - SPECIFY:	WELL YIELD (gpm):	
ON	WELL TEST	TEST R	ESULTS - ATTA	CH A COPY OF DATA COLLECTED DURING WELL TESTING, IN TE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING DISCHARGE N /ER THE TESTING PERIO	ETHOD,
TEST; RIG SUPERVISION	MISCELLAN	EOUS INFO	DRMATION:			
ST;						
S. TE	William B,		LL RIG SUPERV	ISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO.	NSTRUCTION OTHER THA	AN LICENSEE:
8 1	COKKRECLKI	COKO UF	THE ABOVE DE	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL SCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL HOAYS AFTER COMPLETION OF WELL DRILLING:	IEF, THE FOREGOING IS A	A TRUE AND E ENGINEER
6. SIG		<	70		7.1.14	4
		SIGNATU	E SIMURAMER	/ PRINT SIGNEE NAME	DATE	
_	OSE INTERNA	AL USE		The second secon	LL RECORD & LOG (Vers	ion 06/08/2012)
THE !	NUMBER			POD NUMBER TRN NUMB	RER	



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National Water Information System: Web Interface

USGS Water Resources

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USGS 323142103080002 20S.38E.34.233234A

Available data for this site SUMMARY OF ALL AVAILABLE DATA • GO

Well Site

DESCRIPTION:

Latitude 32°31'42", Longitude 103°08'00" NAD27 Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: not determined.

Land surface altitude: 3,523 feet above NAVD88.

Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer. Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count		
Field groundwater-level measurements	1986-02-18	1986-02-18	1		
<u>Revisions</u>	Unavailable (site:0) (timeseries:				

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions or Comments
Help
Data Tips
Explanation of terms

Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

Released to Imaging: 8/4/2025 12:59:14 PM

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

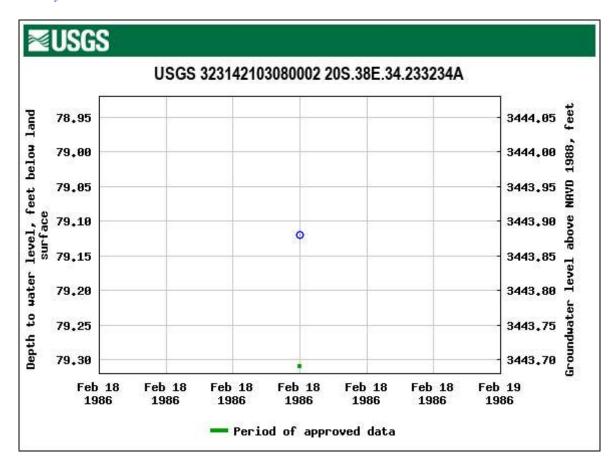
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?site_no=323142103080002&agency_cd=USGS

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2025-01-29 13:09:40 EST

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APPENDIX C

Photographic Log



Photographic Log

Hilcorp Energy Company NEDU 164 Flowline





Photograph: 1 Date: 2/4/2025

Description: View of Release Extent

View: Southwest

Photograph: 2 Date: 2/4/2025

Description: View of Release Extent

View: East





Photograph: 3 Date: 2/4/2025

Description: View of Release Extent

View: Northwest

Photograph: 4 Date: 2/4/2025

Description: View of Release Extent

View: Northwest

ENSOLUM

Photographic Log

Hilcorp Energy Company NEDU 164 Flowline



© 302°NW (T) LAT: 32.518067 LON: -103.144677 ±16ft ▲ 3493ft

NEDU 164°

Ensolum, LLC

NEDU 164°

13 Mar 2025, 14-48:19 MDT

Photograph: 1 Date: 3/6/2025

Description: Preparation for excavation activities

View: Northeast

Photograph: 2 Date: 3/13/2025

Description: Area of Excavation

View: Northwest



FS07
Ensolum, LLC

NEDU 164
13 Mar 2025, 13:01:29 MDT

Photograph: 3 Date: 3/7/2025

Description: Excavation activities

View: South

Photograph: 4 Date: 3/13/2025

Description: Sample Collection

View: South



APPENDIX D

Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devin Hencmann Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/7/2025 10:06:01 AM

JOB DESCRIPTION

NEDU164 07A1988168

JOB NUMBER

890-7632-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 2/7/2025 10:06:01 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Ensolum
Project/Site: NEDU164
Laboratory Job ID: 890-7632-1
SDG: 07A1988168

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Definitions/Glossary

Job ID: 890-7632-1 Client: Ensolum Project/Site: NEDU164 SDG: 07A1988168

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** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. 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 Duplicate Error Ratio (normalized absolute difference) DER Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL, RA, RE, IN

DLC EDL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

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 MOI Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7632-1 Project: NEDU164

Job ID: 890-7632-1 Eurofins Carlsbad

Job Narrative 890-7632-1

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

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

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

Receipt

The samples were received on 2/5/2025 8:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-7632-1) and SS02 (890-7632-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-7632-1), SS02 (890-7632-2), SS03 (890-7632-3), (CCV 880-102138/20), (LCS 880-102164/1-A), (880-54102-A-1-F) and (880-54102-A-1-E MSD). 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.

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SS03 (890-7632-3), (880-54131-A-1-E MS) and (880-54131-A-1-F MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102119 and analytical batch 880-102154 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-7632-1) and SS02 (890-7632-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102119 and analytical batch 880-102154 was outside the upper control limits.

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.

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Lab Sample ID: 890-7632-1

Client Sample Results

Client: Ensolum Job ID: 890-7632-1 Project/Site: NEDU164 SDG: 07A1988168

Client Sample ID: SS01

Date Collected: 02/04/25 14:02 Date Received: 02/05/25 08:39

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	25.1		0.998	mg/Kg		02/06/25 15:31	02/06/25 19:42	500
Toluene	173		0.998	mg/Kg		02/06/25 15:31	02/06/25 19:42	500
Ethylbenzene	135		0.998	mg/Kg		02/06/25 15:31	02/06/25 19:42	500
m-Xylene & p-Xylene	195		2.00	mg/Kg		02/06/25 15:31	02/06/25 19:42	500
o-Xylene	76.0		0.998	mg/Kg		02/06/25 15:31	02/06/25 19:42	500
Xylenes, Total	271		2.00	mg/Kg		02/06/25 15:31	02/06/25 19:42	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130			02/06/25 15:31	02/06/25 19:42	500
1,4-Difluorobenzene (Surr)	125		70 - 130			02/06/25 15:31	02/06/25 19:42	500
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	604		2.00	mg/Kg			02/06/25 19:42	1
Method: SW846 8015 NM - Diese			•		_			D.: E
Analyte		Qualifier	RL 49.9	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10700		/u u				00/00/05 40 07	
			43.3	mg/Kg			02/06/25 12:27	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)		mg/Kg			02/06/25 12:27	1
	• •	nics (DRO) Qualifier		mg/Kg	<u>D</u>	Prepared	02/06/25 12:27 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	• •		(GC)		<u>D</u>	Prepared 02/05/25 20:22		·
Analyte Gasoline Range Organics	Result		(GC)	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 3970	Qualifier	(GC) RL 49.9	Unit mg/Kg	<u> </u>	02/05/25 20:22	Analyzed 02/06/25 12:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 3970 6730	Qualifier	(GC) RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	02/05/25 20:22	Analyzed 02/06/25 12:27 02/06/25 12:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 3970 6730 <49.9	Qualifier U	(GC) RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u> </u>	02/05/25 20:22 02/05/25 20:22 02/05/25 20:22	Analyzed 02/06/25 12:27 02/06/25 12:27 02/06/25 12:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 3970 6730 <49.9 %Recovery 170	Qualifier U Qualifier	(GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg mg/Kg	<u>D</u>	02/05/25 20:22 02/05/25 20:22 02/05/25 20:22 Prepared	Analyzed 02/06/25 12:27 02/06/25 12:27 02/06/25 12:27 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 3970 6730 <49.9 %Recovery 170 182	Qualifier U Qualifier S1+ S1+	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u> </u>	02/05/25 20:22 02/05/25 20:22 02/05/25 20:22 Prepared 02/05/25 20:22	Analyzed 02/06/25 12:27 02/06/25 12:27 02/06/25 12:27 Analyzed 02/06/25 12:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 3970 6730 <49.9 %Recovery 170 182 1 Chromatograp	Qualifier U Qualifier S1+ S1+	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	02/05/25 20:22 02/05/25 20:22 02/05/25 20:22 Prepared 02/05/25 20:22	Analyzed 02/06/25 12:27 02/06/25 12:27 02/06/25 12:27 Analyzed 02/06/25 12:27	Dil Fac

Client Sample ID: SS02

Date Collected: 02/04/25 13:58

Date Received: 02/05/25 08:39

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.52		1.01	mg/Kg		02/06/25 15:31	02/06/25 20:02	500
Toluene	94.6		1.01	mg/Kg		02/06/25 15:31	02/06/25 20:02	500
Ethylbenzene	79.1		1.01	mg/Kg		02/06/25 15:31	02/06/25 20:02	500
m-Xylene & p-Xylene	136		2.01	mg/Kg		02/06/25 15:31	02/06/25 20:02	500
o-Xylene	42.5		1.01	mg/Kg		02/06/25 15:31	02/06/25 20:02	500
Xylenes, Total	179		2.01	mg/Kg		02/06/25 15:31	02/06/25 20:02	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			02/06/25 15:31	02/06/25 20:02	500

Eurofins Carlsbad

Lab Sample ID: 890-7632-2

Matrix: Solid

Job ID: 890-7632-1 SDG: 07A1988168

Client Sample ID: SS02 Lab Sample ID: 890-7632-2

Date Collected: 02/04/25 13:58 Date Received: 02/05/25 08:39

Sample Depth: 0.5

Client: Ensolum

Project/Site: NEDU164

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	02/06/25 15:31	02/06/25 20:02	500

Method: TAL SOP Total BTEX - Total BTEX (
	Coloulation
I MELITOU. TAL SOF TOTAL DILA - TOTAL DILA	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	361	2.01	mg/Kg			02/06/25 20:02	1

Method: SW846 8015 NM	- Diesal Range	Organice	(DRO)	(CC)	ï
MICHICA. STACTO CO 12 IAIN	- Diesei Kange	Organics	(DIXO)	\mathbf{U}	,

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9780	49.8	mg/Kg			02/06/25 12:43	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3800	49.8	mg/Kg		02/05/25 20:22	02/06/25 12:43	1
Diesel Range Organics (Over C10-C28)	5980	49.8	mg/Kg		02/05/25 20:22	02/06/25 12:43	1
Oil Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg		02/05/25 20:22	02/06/25 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130	02/05/25 20:22	02/06/25 12:43	1
o-Terphenyl	159	S1+	70 - 130	02/05/25 20:22	2 02/06/25 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	703		10.1	mg/Kg			02/06/25 20:23	1

Client Sample ID: SS03 Lab Sample ID: 890-7632-3

Date Collected: 02/04/25 13:52 Date Received: 02/05/25 08:39

Sample Depth: 1.5

Mothod:	SW846 8021I	2 - Volatilo	Organic	Compounde	(CC)
i weliiou.	344040 002 11	o - voiatile	Oruanic v	Compounds	IUCI

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.00	U	1.00	mg/Kg		02/06/25 15:31	02/06/25 20:22	500
Toluene	2.76		1.00	mg/Kg		02/06/25 15:31	02/06/25 20:22	500
Ethylbenzene	2.32		1.00	mg/Kg		02/06/25 15:31	02/06/25 20:22	500
m-Xylene & p-Xylene	3.51		2.00	mg/Kg		02/06/25 15:31	02/06/25 20:22	500
o-Xylene	1.67		1.00	mg/Kg		02/06/25 15:31	02/06/25 20:22	500
Xylenes, Total	5.18		2.00	mg/Kg		02/06/25 15:31	02/06/25 20:22	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			02/06/25 15:31	02/06/25 20:22	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/06/25 15:31	02/06/25 20:22	500
1,4-Difluorobenzene (Surr)	114		70 - 130	02/06/25 15:31	02/06/25 20:22	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	10.3	2.00	mg/Kg			02/06/25 20:22	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	296		49.7	mg/Kg			02/06/25 12:59	1	

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-7632-3

Client Sample Results

 Client: Ensolum
 Job ID: 890-7632-1

 Project/Site: NEDU164
 SDG: 07A1988168

Client Sample ID: SS03

Date Collected: 02/04/25 13:52 Date Received: 02/05/25 08:39

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		02/05/25 20:22	02/06/25 12:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	296		49.7	mg/Kg		02/05/25 20:22	02/06/25 12:59	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		02/05/25 20:22	02/06/25 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			02/05/25 20:22	02/06/25 12:59	1
o-Terphenyl	63	S1-	70 - 130			02/05/25 20:22	02/06/25 12:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	425		9.96	mg/Kg			02/06/25 20:29	

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Surrogate Summary

Job ID: 890-7632-1 Client: Ensolum Project/Site: NEDU164 SDG: 07A1988168

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-54102-A-1-D MS	Matrix Spike	128	79
880-54102-A-1-E MSD	Matrix Spike Duplicate	140 S1+	79
880-54141-A-1-B MS	Matrix Spike	91	112
880-54141-A-1-C MSD	Matrix Spike Duplicate	98	105
890-7632-1	SS01	207 S1+	125
890-7632-2	SS02	163 S1+	110
890-7632-3	SS03	109	114
LCS 880-102164/1-A	Lab Control Sample	132 S1+	83
LCS 880-102178/1-A	Lab Control Sample	116	129
LCSD 880-102164/2-A	Lab Control Sample Dup	129	83
LCSD 880-102178/2-A	Lab Control Sample Dup	96	115
MB 880-102164/5-A	Method Blank	127	76
MB 880-102178/5-A	Method Blank	96	93

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)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-54131-A-1-E MS	Matrix Spike	67 S1-	68 S1-	
880-54131-A-1-F MSD	Matrix Spike Duplicate	69 S1-	67 S1-	
890-7632-1	SS01	170 S1+	182 S1+	
890-7632-2	SS02	166 S1+	159 S1+	
890-7632-3	SS03	68 S1-	63 S1-	
LCS 880-102119/2-A	Lab Control Sample	74	77	
LCSD 880-102119/3-A	Lab Control Sample Dup	74	76	
MB 880-102119/1-A	Method Blank	99	92	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

 Client: Ensolum
 Job ID: 890-7632-1

 Project/Site: NEDU164
 SDG: 07A1988168

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102164/5-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102164

	MB	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/25 09:41	02/06/25 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/06/25 09:41	02/06/25 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/25 09:41	02/06/25 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	02/06/25 09:	41 02/06/25 11:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130	02/06/25 09:	41 02/06/25 11:41	1

Lab Sample ID: LCS 880-102164/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 102138

Prep Type: Total/NA

Prep Batch: 102164

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1192	-	mg/Kg		119	70 - 130	
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2260		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-102164/2-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Lab Control Sample D	up
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Prep Type: Total/NA

Prep Batch: 102164

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1149		mg/Kg		115	70 - 130	4	35	
Toluene	0.100	0.1060		mg/Kg		106	70 - 130	2	35	
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130	1	35	
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1.4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 880-54102-A-1-D MS

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102164

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09874		mg/Kg		99	70 - 130	
Toluene	< 0.00200	U	0.0998	0.09860		mg/Kg		99	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-7632-1 SDG: 07A1988168 Project/Site: NEDU164

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

Lab Sample ID: 880-54102-A-1-D MS

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102164

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.1017		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2121		mg/Kg		106	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.1070		mg/Kg		107	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102164

Matrix: Solid

Lab Sample ID: 880-54102-A-1-E MSD

Analysis Batch: 102138

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.1171		mg/Kg		118	70 - 130	17	35
Toluene	<0.00200	U	0.0996	0.1012		mg/Kg		102	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1052		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2207		mg/Kg		111	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.1104		mg/Kg		111	70 - 130	3	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: MB 880-102178/5-A

Matrix: Solid

Analysis Batch: 101988

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102178

MB MB

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		02/06/25 11:01	02/06/25 12:39	1
	Toluene	<0.00200	U	0.00200	mg/Kg		02/06/25 11:01	02/06/25 12:39	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/25 11:01	02/06/25 12:39	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/06/25 11:01	02/06/25 12:39	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/25 11:01	02/06/25 12:39	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/25 11:01	02/06/25 12:39	1
ı									

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	70 - 130	02/06/25 11:01	02/06/25 12:39	1
1,4-Difluorobenzene (Surr)	93	70 - 130	02/06/25 11:01	02/06/25 12:39	1

Lab Sample ID: LCS 880-102178/1-A

Matrix: Solid

Analysis Batch: 101988

Client Sample ID: Lab Control Sam	ple
Prep Type: Total	NA

Prep Batch: 102178

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1214		mg/Kg		121	70 - 130
Toluene	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2402		mg/Kg		120	70 - 130

Job ID: 890-7632-1 Client: Ensolum Project/Site: NEDU164 SDG: 07A1988168

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

Lab Sample ID: LCS 880-102178/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 101988 **Prep Batch: 102178**

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene		0.100	0.1194		mg/Kg	_	119	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: LCSD 880-102178/2-A Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Matrix: Solid Prep Batch: 102178** Analysis Batch: 101988

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	18	35
Toluene	0.100	0.08827		mg/Kg		88	70 - 130	18	35
Ethylbenzene	0.100	0.09811		mg/Kg		98	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	18	35
o-Xylene	0.100	0.09958		mg/Kg		100	70 - 130	18	35

,			
	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

91

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Lab Sample ID: 880-54141-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 101988

Prep Batch: 102178 Spike MS MS Sample Sample %Rec Result Qualifier Result Qualifier Added Analyte Unit D %Rec Limits 0.0998 Benzene <0.00200 U 0.09771 mg/Kg 98 70 - 130 <0.00200 U 0.0998 Toluene 0.08452 mg/Kg 70 - 130

Surrogate	%Recovery	Qualifier	Limits				
	MS	MS					
o-Xylene	<0.00200	U	0.0998	0.09513	mg/Kg	95	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1926	mg/Kg	96	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09304	mg/Kg	93	70 - 130

70 - 130

70 - 130

Lab Sample ID: 880-54141-A-1-C MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 101988

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Prep Batch: 102178 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit %Rec RPD Benzene <0.00200 U 0.0996 0.09013 mg/Kg 90 70 - 130 8 35 Toluene <0.00200 U 0.0996 0.07665 mg/Kg 77 70 - 130 35 10 Ethylbenzene <0.00200 U 0.0996 0.08344 mg/Kg 84 70 - 130 11 35 m-Xylene & p-Xylene <0.00401 U 0.199 0.1736 mg/Kg 87 70 - 130 10 35 o-Xylene <0.00200 U 0.0996 0.08764 mg/Kg 88 70 - 130 35

Job ID: 890-7632-1 SDG: 07A1988168

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

Lab Sample ID: 880-54141-A-1-C MSD

Matrix: Solid

Client: Ensolum

Project/Site: NEDU164

Analysis Batch: 101988

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102178

MSD MSD %Recovery Qualifier

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-102119/1-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102119

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/05/25 20:21	02/06/25 05:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/05/25 20:21	02/06/25 05:08	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/05/25 20:21	02/06/25 05:08	1
	***	**5						
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28) <50.0 Oil Range Organics (Over C28-C36) <50.0	Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Analyte Result Qualifier RL Gasoline Range Organics <50.0 U 50.0 (GRO)-C6-C10 50.0 U 50.0 Diesel Range Organics (Over <50.0 U 50.0 C10-C28) C10-C28) <50.0 U 50.0	Analyte Result Qualifier RL Unit Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg	Analyte Result Qualifier RL Unit D Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg	Analyte Result Qualifier RL Unit D Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 02/05/25 20:21 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/05/25 20:21 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 02/05/25 20:21	Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 02/05/25 20:21 02/06/25 05:08 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/05/25 20:21 02/06/25 05:08 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 02/05/25 20:21 02/06/25 05:08

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	02/05/25 20:21	02/06/25 05:08	1
o-Terphenyl	92		70 - 130	02/05/25 20:21	02/06/25 05:08	1

Lab Sample ID: LCS 880-102119/2-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 102119

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	898.4		mg/Kg		90	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	908.2		mg/Kg		91	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	77	70 - 130

Lab Sample ID: LCSD 880-102119/3-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102119

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	752.0		mg/Kg		75	70 - 130	18	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	764.9		mg/Kg		76	70 - 130	17	20
C10 C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	76	70 - 130

Job ID: 890-7632-1 SDG: 07A1988168

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

Lab Sample ID: 880-54131-A-1-E MS

Matrix: Solid

Client: Ensolum Project/Site: NEDU164

Analysis Batch: 102154

Client	Sample	ID:	Matrix	Spike

Prep Type: Total/NA **Prep Batch: 102119**

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	668.6	F1	mg/Kg		67	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	659.9	F1	mg/Kg		66	70 - 130	
	MS	MS								

Surrogate

Lab Sample ID: 880-54131-A-1-F MSD

%Recovery Qualifier Limits 70 - 130 1-Chlorooctane S1 67 o-Terphenyl 68 S1-70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 102119

Prep Type: Soluble

Analysis Batch: 102154 Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <50.0 U F1 999 69 Gasoline Range Organics 693.7 F1 mg/Kg 70 - 130 4 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 UF1 999 648.8 F1 mg/Kg 65 70 - 130 2 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 69 S1-70 - 130 67 S1-70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102179/1-A Client Sample ID: Method Blank

Matrix: Solid

Matrix: Solid

Analysis Batch: 102205

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 02/06/25 15:52

Lab Sample ID: LCS 880-102179/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 102205

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 270.0 108 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-102179/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 102205

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 270.4 108 mg/Kg 90 _ 110 20

Client: Ensolum Job ID: 890-7632-1 SDG: 07A1988168 Project/Site: NEDU164

Method: 300.0 - Anions, Ion Chromatography (Continued)

10.3

Lab Sample ID: 890-7631-A-1-H MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 102205

Analysis Batch: 102205

Chloride

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 10.3 251 240.6 mg/Kg 92 90 - 110

Lab Sample ID: 890-7631-A-1-I MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Prep Type: Soluble

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec

241.9

251

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QC Sample Results

mg/Kg

92

90 - 110

QC Association Summary

Client: Ensolum Job ID: 890-7632-1 Project/Site: NEDU164 SDG: 07A1988168

GC VOA

Analysis Batch: 101988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Total/NA	Solid	8021B	102178
890-7632-2	SS02	Total/NA	Solid	8021B	102178
890-7632-3	SS03	Total/NA	Solid	8021B	102178
MB 880-102178/5-A	Method Blank	Total/NA	Solid	8021B	102178
LCS 880-102178/1-A	Lab Control Sample	Total/NA	Solid	8021B	102178
LCSD 880-102178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102178
880-54141-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	102178
880-54141-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102178

Analysis Batch: 102138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102164/5-A	Method Blank	Total/NA	Solid	8021B	102164
LCS 880-102164/1-A	Lab Control Sample	Total/NA	Solid	8021B	102164
LCSD 880-102164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102164
880-54102-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	102164
880-54102-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102164

Prep Batch: 102164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54102-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-54102-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 102178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Total/NA	Solid	5035	
890-7632-2	SS02	Total/NA	Solid	5035	
890-7632-3	SS03	Total/NA	Solid	5035	
MB 880-102178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54141-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-54141-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Total/NA	Solid	Total BTEX	
890-7632-2	SS02	Total/NA	Solid	Total BTEX	
890-7632-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Total/NA	Solid	8015NM Prep	
890-7632-2	SS02	Total/NA	Solid	8015NM Prep	
890-7632-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

 Client: Ensolum
 Job ID: 890-7632-1

 Project/Site: NEDU164
 SDG: 07A1988168

GC Semi VOA (Continued)

Prep Batch: 102119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Total/NA	Solid	8015B NM	102119
890-7632-2	SS02	Total/NA	Solid	8015B NM	102119
890-7632-3	SS03	Total/NA	Solid	8015B NM	102119
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015B NM	102119
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102119
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102119
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102119
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102119

Analysis Batch: 102279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Total/NA	Solid	8015 NM	
890-7632-2	SS02	Total/NA	Solid	8015 NM	
890-7632-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Soluble	Solid	DI Leach	
890-7632-2	SS02	Soluble	Solid	DI Leach	
890-7632-3	SS03	Soluble	Solid	DI Leach	
MB 880-102179/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102179/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102179/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7631-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7631-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7632-1	SS01	Soluble	Solid	300.0	102179
890-7632-2	SS02	Soluble	Solid	300.0	102179
890-7632-3	SS03	Soluble	Solid	300.0	102179
MB 880-102179/1-A	Method Blank	Soluble	Solid	300.0	102179
LCS 880-102179/2-A	Lab Control Sample	Soluble	Solid	300.0	102179
LCSD 880-102179/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102179
890-7631-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	102179
890-7631-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102179

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Client: Ensolum Project/Site: NEDU164 Job ID: 890-7632-1 SDG: 07A1988168

Client Sample ID: SS01

Lab Sample ID: 890-7632-1

Matrix: Solid

Date Collected: 02/04/25 14:02 Date Received: 02/05/25 08:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102178	02/06/25 15:31	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	101988	02/06/25 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102288	02/06/25 19:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102279	02/06/25 12:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102119	02/05/25 20:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 12:27	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102179	02/06/25 11:21	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102205	02/06/25 20:17	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-7632-2

Date Collected: 02/04/25 13:58 Matrix: Solid Date Received: 02/05/25 08:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	102178	02/06/25 15:31	MNR	EET MIC
Total/NA	Analysis	8021B		500	5 mL	5 mL	101988	02/06/25 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102288	02/06/25 20:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102279	02/06/25 12:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102119	02/05/25 20:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 12:43	TKC	EET MIC
Soluble	Leach	DI Leach			4.97 g	50 mL	102179	02/06/25 11:21	SI	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	102205	02/06/25 20:23	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-7632-3

Date Collected: 02/04/25 13:52 **Matrix: Solid** Date Received: 02/05/25 08:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102178	02/06/25 15:31	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	101988	02/06/25 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102288	02/06/25 20:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102279	02/06/25 12:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102119	02/05/25 20:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 12:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102179	02/06/25 11:21	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102205	02/06/25 20:29	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-7632-1

 Project/Site: NEDU164
 SDG: 07A1988168

Laboratory: Eurofins Midland

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

Authority	ty Program		Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certi	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

 Client: Ensolum
 Job ID: 890-7632-1

 Project/Site: NEDU164
 SDG: 07A1988168

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	EPA	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

EPA = US Environmental Protection Agency

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

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Sample Summary

Client: Ensolum Project/Site: NEDU164 Job ID: 890-7632-1

SDG: 07A1988168

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-7632-1	SS01	Solid	02/04/25 14:02	02/05/25 08:39	0.5
890-7632-2	SS02	Solid	02/04/25 13:58	02/05/25 08:39	0.5
890-7632-3	SS03	Solid	02/04/25 13:52	02/05/25 08:39	1.5

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Revised Date: 08/25/2020 Rev. 2020.2

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Environment Testing

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 Little Rock, AR (501) 224-5060



Devin Henemann bunn Project Manager: Bill to: (If different) HILLCORP Fraction Program: UST/PST PRP Brownfields RRC Superfund Company Name: Company Name: 3122 Netanal Parts Hum Address: Address: Reporting: Level II C Level III PST/UST TRRP Level IV Cerlshad, NM 88220 City, State ZIP: City, State ZIP: 805-798-2608 Deliverables: EDD ADaPT Email: ahenemann Genselum. um tsmithern so Phone: **ANALYSIS REQUEST Preservative Codes** Project Name: **Turn Around** Pres. Routine Rush Project Number: None: NO DI Water: H₂O Code 300 MeOH: Me Project Location: Due Date: Cool: Cool Even Ra HCL: HC HNO₃ Sampler's Name: TAT starts the day received by the lab, if received by 4:30pm H₂SO₄: H₂ NaOH: Na PO #: E13 Yes No SAMPLE RECEIPT (Yes H₃PO₄: HP Temp Blank: Wet Ice: Yes Thermometer ID: NaHSO4: NABIS Samples Received Intact: No d Yes No /N/A Na₂S₂O₃: NaSO₃ Cooler Custody Seals: Correction Factor 3 Yes No NA Temperature Reading: Zn Acetate+NaOH: Zn Sample Custody Seals: U(O NaOH+Ascorbic Acid: SAPC **Total Containers** Corrected Temperature: 2 d Grab/ # of Time Date **Sample Comments** Sample Identification Matrix Sampled Sampled Cont Comp 5501 2/4/25 2/4/25 5502 1358 9 GL 2/4/25 BRORA 13PPM Texas 11 Al Sti As Ba Be B Cd Ca Cr Co Cu Fe Ph Mg Mn Mn Ni K Se Ag SiO, Na Sr 11 Sn II V Zo Total 200.7 / 6010 200.8 / 6020: Hg: 1631 / 245.1 / 7470 / 7471 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed 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. Date/Time Relinguished by: (Signature) Received by: (Signature) Relinquished by: (Signature) Received by: (Signature) Date/Time

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7632-1 SDG Number: 07A1988168

Login Number: 7632 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-7632-1 SDG Number: 07A1988168

List Source: Eurofins Midland

List Creation: 02/05/25 08:55 PM

Login Number: 7632 List Number: 2 Creator: Laing, Edmundo

Question Answer Comment

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present

COC is filled out in ink and legible.

COC is filled out with all pertinent information

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devin Hencmann Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

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JOB DESCRIPTION

NEDU 164

JOB NUMBER

890-7791-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Client: Ensolum

Project/Site: NEDU 164

Laboratory Job ID: 890-7791-1

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Definitions/Glossary

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Qualifiers

GC	VOA
Qua	lifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
H	Indicates the analyte was analyzed for but not detected

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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 Job ID: 890-7791-1 Project: NEDU 164

Eurofins Carlsbad Job ID: 890-7791-1

Job Narrative 890-7791-1

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

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

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

Receipt

The samples were received on 3/10/2025 9:18 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 1.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS05 (890-7791-1) and FS06 (890-7791-2).

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-104941 and analytical batch 880-104944 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-104954/2-A) and (LCSD 880-104954/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-104954 and analytical batch 880-105003 was outside the upper control limits.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104982 and analytical batch 880-104996 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Lab Sample ID: 890-7791-1

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Client Sample ID: FS05

Date Collected: 03/07/25 10:50 Date Received: 03/10/25 09:18

Sample Depth: 4'

Sample Depth: 4								
Method: SW846 8021B - Vola	tile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/11/25 12:48	03/11/25 17:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/11/25 12:48	03/11/25 17:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/11/25 12:48	03/11/25 17:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/11/25 12:48	03/11/25 17:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/11/25 12:48	03/11/25 17:22	1

Xylenes, Total	<0.00402	U	0.00402	mg/Kg	03/11/25 12:48	03/11/25 17:22	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		03/11/25 12:48	03/11/25 17:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130		03/11/25 12:48	03/11/25 17:22	1

Method: TAL SOP Total BTEX - To	tal BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			03/11/25 17:22	1

	Method: SW846 8015 NM - Diesel Ran	ge Organi	ics (DRO) (0	SC)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<50.0	U	50.0	mg/Kg			03/11/25 13:32	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/10/25 16:44	03/11/25 13:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/10/25 16:44	03/11/25 13:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/10/25 16:44	03/11/25 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/10/25 16:44	03/11/25 13:32	1
o-Terphenyl	95		70 - 130	03/10/25 16:44	03/11/25 13:32	1

Method: EPA 300.0 - Anions, ion C	nromatograp	ny - Soluble	•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			03/11/25 13:04	1

Client Sample ID: FS06

Date Collected: 03/07/25 09:02

Lab Sample ID: 890-7791-2

Matrix: Solid

Date Collected: 03/07/25 09:02 Date Received: 03/10/25 09:18

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/11/25 12:48	03/11/25 17:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/11/25 12:48	03/11/25 17:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/11/25 12:48	03/11/25 17:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/11/25 12:48	03/11/25 17:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/11/25 12:48	03/11/25 17:43	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/11/25 12:48	03/11/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			03/11/25 12:48	03/11/25 17:43	1

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11

Client Sample Results

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Client Sample ID: FS06 Lab Sample ID: 890-7791-2

Matrix: Solid

Date Collected: 03/07/25 09:02 Date Received: 03/10/25 09:18

Sample Depth: 4'

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130			03/11/25 12:48	03/11/25 17:43	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/11/25 17:43	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/11/25 13:48	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result <49.8		• •	Mg/Kg	<u>D</u>	Prepared 03/10/25 16:44	Analyzed 03/11/25 13:48	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10		U	RL	mg/Kg	<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U	RL 49.8		<u>D</u>	03/10/25 16:44	03/11/25 13:48	Dil Fac
	<49.8	U	RL 49.8	mg/Kg	<u>D</u>	03/10/25 16:44	03/11/25 13:48	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8	U U	RL 49.8 49.8	mg/Kg	<u>D</u>	03/10/25 16:44	03/11/25 13:48	Dil Fac 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.8 <49.8 <49.8	U U	RL 49.8 49.8 49.8	mg/Kg	<u>D</u>	03/10/25 16:44 03/10/25 16:44 03/10/25 16:44	03/11/25 13:48 03/11/25 13:48 03/11/25 13:48	1 1

9.96

Unit

mg/Kg

D

Prepared

Analyzed

03/11/25 13:09

Dil Fac

Result Qualifier

95.8

Surrogate Summary

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

BFB1	DED 74
	DFBZ1
(70-130)	(70-130)
99	98
99	97
144 S1+	123
icate 93	132 S1+
le 99	108
le Dup 110	101
92	89
trol Samp	99 99 pike 144 S1+ pike Duplicate 93 trol Sample 99 trol Sample Dup 110

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid**

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7791-1	FS05	109	95
890-7791-2	FS06	106	93
890-7793-A-25-E MS	Matrix Spike	110	107
890-7793-A-25-F MSD	Matrix Spike Duplicate	111	107
LCS 880-104954/2-A	Lab Control Sample	136 S1+	136 S1+
LCSD 880-104954/3-A	Lab Control Sample Dup	135 S1+	137 S1+
MB 880-104954/1-A	Method Blank	145 S1+	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Matrix: Solid

Matrix: Solid

Analysis Batch: 104944

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104941/5-A

Lab Sample ID: LCS 880-104941/1-A

Analysis Batch: 104944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104941

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/25 16:03	03/11/25 10:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/25 16:03	03/11/25 10:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/10/25 16:03	03/11/25 10:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/10/25 16:03	03/11/25 10:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/25 16:03	03/11/25 10:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/10/25 16:03	03/11/25 10:39	1

MB MB

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	70 - 130	03/10/25 16:03	03/11/25 10:39	1
1,4-Difluorobenzene (Surr)	89	70 - 130	03/10/25 16:03	03/11/25 10:39	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104941

Prep Type: Total/NA

Prep Batch: 104941

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1172		mg/Kg		117	70 - 130	
Toluene	0.100	0.1219		mg/Kg		122	70 - 130	
Ethylbenzene	0.100	0.1193		mg/Kg		119	70 - 130	
m-Xylene & p-Xylene	0.200	0.2144		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

119

Matrix: Solid

Analysis Batch: 104944

Lab Sample ID: LCSD 880-104941/2-A

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1119		mg/Kg		112	70 - 130	5	35
Toluene	0.100	0.1254		mg/Kg		125	70 - 130	3	35
Ethylbenzene	0.100	0.1245		mg/Kg		125	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2246		mg/Kg		112	70 - 130	5	35

0.1193

mg/Kg

0.100

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

o-Xylene

Lab Sample ID: 890-7793-A-13-A MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 104944	Prep Batch: 104941

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.100	0.08987		mg/Kg		90	70 - 130	
Toluene	<0.00200	U	0.100	0.08341		mg/Kg		83	70 - 130	

Lab Sample ID: 890-7793-A-13-A MS

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104954

Prep Type: Total/NA

Prep Type: Total/NA

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

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

Matrix: Solid

Analysis Batch: 104944

Analysis Batch: 104944									Batch: 104941	
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.1014		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.2457		mg/Kg		123	70 - 130	
o-Xylene	<0.00200	U F1	0.100	0.07628		mg/Kg		76	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 890-7793-A-13-B MSD

Matrix: Solid

Analysis Batch: 104944									•	Batch: 1	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1 F2	0.100	0.004189	F1 F2	mg/Kg		4	70 - 130	182	35
Toluene	<0.00200	U	0.100	0.07259		mg/Kg		73	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.100	0.07725		mg/Kg		77	70 - 130	27	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.1359	F1 F2	mg/Kg		68	70 - 130	58	35
o-Xylene	<0.00200	U F1	0.100	0.06111	F1	mg/Kg		61	70 - 130	22	35

MSD MSD Surrogate %Recovery Qualifier Limits 93 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 132 S1+ 70 - 130

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

Lab Sample ID: MB 880-104954/1-A

Matrix: Solid

Analysis Batch: 105003

	MB	MB		
Analyte	Result	Qualifier	RL	
Gasoline Range Organics	<50.0	U	50.0	

Analyte	itesuit	Qualifier	RL	Unit	ט	Prepared	Analyzea	DII Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/10/25 16:39	03/11/25 09:14	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/10/25 16:39	03/11/25 09:14	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/10/25 16:39	03/11/25 09:14	1
	MP	MP						
	(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28) Oil Range Organics (Over C28-C36) <50.0	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28) Oil Range Organics (Over C28-C36) <50.0 U	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/10/25 16:39 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/10/25 16:39	(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/10/25 16:39 03/11/25 09:14 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/10/25 16:39 03/11/25 09:14

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
. T	400	04:	70 400

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	03/10/25 16:39	03/11/25 09:14	1
o-Terphenyl	136	S1+	70 - 130	03/10/25 16:39	03/11/25 09:14	1

Lab Sample ID: LCS 880-104954/2-A **Matrix: Solid**

Analys	is Batch:	105003

Analysis Batch: 105003						Prep Batch: 104				
	Spike	LCS	LCS				%Rec			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics	1000	1294		mg/Kg		129	70 - 130			
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1283		mg/Kg		128	70 - 130			
C10-C28)										

Eurofins Carlsbad

Prep Type: Total/NA

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Job ID: 890-7791-1 Client: Ensolum

Project/Site: NEDU 164

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

LCS LCS

Lab Sample ID: LCS 880-104954/2-A **Matrix: Solid**

Analysis Batch: 105003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104954

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 136 S1+ 70 - 130 o-Terphenyl 136 S1+ 70 - 130

Lab Sample ID: LCSD 880-104954/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 105003

Prep Type: Total/NA

Prep Batch: 104954

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1158 116 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1222 mg/Kg 122 70 - 1305 20

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 135 S1+ 70 - 130 1-Chlorooctane 137 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 890-7793-A-25-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 105003

Prep Type: Total/NA

Prep Batch: 104954

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.8 U 999 1142 mg/Kg 114 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 1128 mg/Kg 109 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 70 - 130 o-Terphenyl 107

Lab Sample ID: 890-7793-A-25-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 105003

Prep Type: Total/NA

Prep Batch: 104954

RPD

Sample Sample MSD MSD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 999 Gasoline Range Organics <49.8 1142 mg/Kg 114 70 - 130 n 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 1111 mg/Kg 107 70 - 130 2 20

C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 111 70 - 130 107 70 - 130 o-Terphenyl

Prep Type: Soluble

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104982/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 104996

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			03/11/25 09:47	1

Lab Sample ID: LCS 880-104982/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104996

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	252.4		mg/Kg	_	101	90 - 110	

Lab Sample ID: LCSD 880-104982/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104996

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	251.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-7793-A-27-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 104996

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.9	F1	248	329.5	F1	mg/Kg	_	113	90 - 110	

Lab Sample ID: 890-7793-A-27-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 104996

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	50.9	F1	248	325.8	F1	mg/Kg		111	90 - 110	1	20

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

GC VOA

Prep Batch: 104941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Total/NA	Solid	5035	
890-7791-2	FS06	Total/NA	Solid	5035	
MB 880-104941/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104941/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104941/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7793-A-13-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7793-A-13-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 104944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Total/NA	Solid	8021B	104941
890-7791-2	FS06	Total/NA	Solid	8021B	104941
MB 880-104941/5-A	Method Blank	Total/NA	Solid	8021B	104941
LCS 880-104941/1-A	Lab Control Sample	Total/NA	Solid	8021B	104941
LCSD 880-104941/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104941
890-7793-A-13-A MS	Matrix Spike	Total/NA	Solid	8021B	104941
890-7793-A-13-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104941

Analysis Batch: 105142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Total/NA	Solid	Total BTEX	
890-7791-2	FS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 104954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Total/NA	Solid	8015NM Prep	
890-7791-2	FS06	Total/NA	Solid	8015NM Prep	
MB 880-104954/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7793-A-25-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7793-A-25-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Total/NA	Solid	8015B NM	104954
890-7791-2	FS06	Total/NA	Solid	8015B NM	104954
MB 880-104954/1-A	Method Blank	Total/NA	Solid	8015B NM	104954
LCS 880-104954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104954
LCSD 880-104954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104954
890-7793-A-25-E MS	Matrix Spike	Total/NA	Solid	8015B NM	104954
890-7793-A-25-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104954

Analysis Batch: 105060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Total/NA	Solid	8015 NM	
890-7791-2	FS06	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Leach Batch: 104982

HPLC/IC

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Soluble	Solid	DI Leach	
890-7791-2	FS06	Soluble	Solid	DI Leach	
MB 880-104982/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104982/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104982/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7793-A-27-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7793-A-27-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 104996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7791-1	FS05	Soluble	Solid	300.0	104982
890-7791-2	FS06	Soluble	Solid	300.0	104982
MB 880-104982/1-A	Method Blank	Soluble	Solid	300.0	104982
LCS 880-104982/2-A	Lab Control Sample	Soluble	Solid	300.0	104982
LCSD 880-104982/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104982
890-7793-A-27-D MS	Matrix Spike	Soluble	Solid	300.0	104982
890-7793-A-27-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	104982

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Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Client Sample ID: FS05 Lab Sample ID: 890-7791-1

Matrix: Solid

Date Collected: 03/07/25 10:50 Date Received: 03/10/25 09:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104941	03/11/25 12:48	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	104944	03/11/25 17:22	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			105142	03/11/25 17:22	AJ	EET MI
Total/NA	Analysis	8015 NM		1			105060	03/11/25 13:32	AJ	EET MI
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104954	03/10/25 16:44	EL	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105003	03/11/25 13:32	TKC	EET MIC
Soluble	Leach	DI Leach			4.96 g	50 mL	104982	03/11/25 08:01	SA	EET MIC
Soluble	Analysis	300.0		1			104996	03/11/25 13:04	CH	EET MI

Client Sample ID: FS06 Lab Sample ID: 890-7791-2

Date Collected: 03/07/25 09:02 Matrix: Solid

Date Received: 03/10/25 09:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104941	03/11/25 12:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104944	03/11/25 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105142	03/11/25 17:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105060	03/11/25 13:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104954	03/10/25 16:44	EL	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105003	03/11/25 13:48	TKC	EET MIC
Soluble	Leach	DI Leach			5.02 g	50 mL	104982	03/11/25 08:01	SA	EET MIC
Soluble	Analysis	300.0		1			104996	03/11/25 13:09	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI)	T104704400	06-30-25
,	are included in this report, but does not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Ensolum Job ID: 890-7791-1

Project/Site: NEDU 164

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	EPA	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

EPA = US Environmental Protection Agency

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: NEDU 164

Job ID: 890-7791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7791-1	FS05	Solid	03/07/25 10:50	03/10/25 09:18	4'
890-7791-2	FS06	Solid	03/07/25 09:02	03/10/25 09:18	4'

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Received by OCD: 6/24/2025 3:56:51 PM



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	r No:	

Page

																٦.				enco.co			of
Project Manager:	Devin	Hencma	nn			Bill to: (if	differen	t)	Billy C	Sinn						1	14/25		Wo	rk Orde	r Comment	s	
Company Name:	Ensol	um, LLC				Compar	y Name	e:	Hilcor	р							Program:	JST/PS	T 🗌 PF	RP Bro	ownfields 🗌	RRC 🗌	Superfund
Address:	3122	National F	Parks H	lwy		Address											State of Pr	•					_
City, State ZIP:	Carlst	oad, NM 8	38220			City, State ZIP:											Reporting:	Level II	Leve	el III 🗌 F	PST/UST 🔲	TRRP [Level IV
Phone:	805-7	98-2608			Email:	dhencmann@ensolu			hencmann@ensolum.com; fsmith@ensolum.com					Deliverables: EDD ☐ ADaPT ☐ Other:									
Project Name:		NEI	DU 164		Tur	n Around								ΔΝΔΙ	YSIS R	FO	UEST				Pre	servati	ve Codes
Project Number:	1		1988168		☑ Routine	Rush		Pres.		Г		T	ΤÍ	T				T			None: NC		DI Water: H ₂
Project Location:					Due Date:	T		Code							• 18111 8811 11			111			Cool: Coo		MeOH: Me
Sampler's Name:		Alex	Ferrell		TAT starts th	e day rece	ived by				\vdash					mu					HCL: HC		HNO ₃ : HN
PO #:					the lab, if re			y													H ₂ S0 ₄ : H ₂		NaOH: Na
SAMPLE RECE	IPT	Temp B	lank:	Yes (No	Wet Ice:	Yes	No	meter													H₃PO₄: H	Р	
Samples Received	Intact:	Yes		Thermomete	er ID:		nan	ᅙ					890	7791	Chain of	f Cu	ustody				NaHSO₄:	NABIS	
Cooler Custody Sea	ıls:	Yes No	N/A	Correction F	actor:	-0.2		Ра					-+		-+		+	+	1 1		Na ₂ S ₂ O ₃ .	NaSO ₃	
Sample Custody Se	als:	Yes No	(N/A	Temperatur	e Reading:	L	2									-			-		Zn Acetat	e+NaO	H: Zn
Total Containers:			Corrected Temperature:			emperature: 1.0			es				7								NaOH+A	scorbic .	Acid: SAPC
Sample Ide	ntificati	on	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp			표	ВТЕХ									Sample Comments		omments	
FS	05		Soil	3/7/2025	1050	4'	Comp	1	Х	Х	Х												
FS0	06		Soil	3/7/2025	0902	4'	Comp	1	Х	Х	Х										H-		
												Ti-											

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
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					Pavised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7791-1

SDG Number:

Login Number: 7791 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

1

3/12/2025

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7791-1

SDG Number:

Login Number: 7791 List Source: Eurofins Midland List Number: 2

List Creation: 03/11/25 07:26 AM

Creator: Vasquez, Julisa

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	N/A	

Released to Imaging: 8/4/2025 12:59:14 PM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devin Hencmann Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/20/2025 11:48:29 AM

JOB DESCRIPTION

NEDU 164 07A1988168

JOB NUMBER

890-7811-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 3/20/2025 11:48:29 AM

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

Companies Page 2 of 34

Client: Ensolum
Project/Site: NEDU 164
Laboratory Job ID: 890-7811-1
SDG: 07A1988168

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Definitions/Glossary

Job ID: 890-7811-1 Client: Ensolum Project/Site: NEDU 164 SDG: 07A1988168

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Ciossaiy	
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) Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL NC

Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7811-1 Project: NEDU 164

Eurofins Carlsbad Job ID: 890-7811-1

Job Narrative 890-7811-1

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

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

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

Receipt

The samples were received on 3/14/2025 8:37 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 1.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-7811-1), FS 02 (890-7811-2), FS 03 (890-7811-3), FS 04 (890-7811-4), FS 07 (890-7811-5), FS 08 (890-7811-6), FS 09 (890-7811-7) and SW 01 (890-7811-8).

GC VOA

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

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS 01 (890-7811-1), FS 02 (890-7811-2), FS 03 (890-7811-3), FS 04 (890-7811-4), FS 07 (890-7811-5), FS 08 (890-7811-6), FS 09 (890-7811-7) and SW 01 (890-7811-8). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-7811-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105399 and analytical batch 880-105421 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Client Sample ID: FS 01 Lab Sample ID: 890-7811-1

Date Collected: 03/13/25 13:17

Date Received: 03/14/25 08:37

Matrix: Solid

Sample Depth: 5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 12:01	
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 12:01	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 12:01	
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		03/17/25 07:47	03/17/25 12:01	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 12:01	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/17/25 07:47	03/17/25 12:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130			03/17/25 07:47	03/17/25 12:01	
1,4-Difluorobenzene (Surr)	95		70 - 130			03/17/25 07:47	03/17/25 12:01	
Method: TAL SOP Total BTEX	: Total BTE	X Calculat	ion					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL.	Oille		i icpaica	/ 11.u.y = 0 u	
Total BTEX Method: SW846 8015 NM - Did	<0.00399 esel Range (U Organics (0.00399 DRO) (GC)	mg/Kg		· · ·	03/17/25 12:01	
Total BTEX Method: SW846 8015 NM - Did	<0.00399 esel Range (U Organics (0.00399 DRO) (GC)	mg/Kg		· · ·	03/17/25 12:01	
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH	<0.00399 esel Range (Organics (Qualifier	0.00399		<u></u> <u></u>	Prepared		Dil Fac
Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH	<0.00399 esel Range (Result <49.7	Organics (Qualifier	0.00399 DRO) (GC) RL 49.7	mg/Kg Unit		· · ·	03/17/25 12:01 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did	<0.00399 esel Range (Result <49.7 Diesel Range	Organics (Qualifier U Organics	0.00399 DRO) (GC) RL 49.7 (DRO) (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/17/25 12:01 Analyzed 03/17/25 12:38	Dil Fac
Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte	<0.00399 esel Range (Result <49.7 Diesel Range Result	Organics (Qualifier U Organics Qualifier	0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Did Analyte	<0.00399 esel Range (Result <49.7 Diesel Range	Organics (Qualifier U Organics Qualifier	0.00399 DRO) (GC) RL 49.7 (DRO) (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00399 esel Range (Result <49.7 Diesel Range Result <49.7	Organics (Qualifier U Organics Qualifier	0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed 03/17/25 12:38	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00399 esel Range (Result <49.7 Diesel Range Result <49.7	Organics (Qualifier U Organics Qualifier U F2 U F2 F1	0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7	Unit mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 03/17/25 08:14 03/17/25 08:14	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed 03/17/25 12:38	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00399 esel Range (Result) <449.7 Compared to the control of the contr	Organics (Qualifier U Organics Qualifier U F2 U F2 F1 U	0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7 49.7 49.7	Unit mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 03/17/25 08:14 03/17/25 08:14	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed 03/17/25 12:38 03/17/25 12:38 03/17/25 12:38	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<0.00399 esel Range (Result) <49.7 Diesel Range (Result) <49.7 <49.7 <49.7 <49.7 %Recovery	Organics (Qualifier U Organics Qualifier U F2 U F2 F1 U Qualifier	0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7 49.7 49.7 Limits	Unit mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 03/17/25 08:14 03/17/25 08:14 03/17/25 08:14 Prepared	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed 03/17/25 12:38 03/17/25 12:38 03/17/25 12:38 Analyzed	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00399 esel Range (Result <49.7 Diesel Range Result <49.7 <49.7 <49.7 <49.7 <8ecovery 156	Organics (Qualifier U Organics Qualifier U F2 U F2 F1 U	0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7 49.7 49.7	Unit mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 03/17/25 08:14 03/17/25 08:14 03/17/25 08:14 Prepared 03/17/25 08:14	03/17/25 12:01 Analyzed 03/17/25 12:38 Analyzed 03/17/25 12:38 03/17/25 12:38 03/17/25 12:38 Analyzed	Dil Fac

 Chloride
 1090
 10.1
 mg/Kg
 03/18/25 01:30
 1

 Client Sample ID: FS 02
 Lab Sample ID: 890-7811-2

RL

Unit

D

Prepared

Analyzed

Dil Fac

Matrix: Solid

Result Qualifier

Date Collected: 03/13/25 13:14 Date Received: 03/14/25 08:37

Sample Depth: 6'

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/17/25 07:47	03/17/25 16:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:27	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/17/25 07:47	03/17/25 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/17/25 07:47	03/17/25 16:27	1

Eurofins Carlsbad

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Job ID: 890-7811-1 SDG: 07A1988168

Project/Site: NEDU 164

Date Collected: 03/13/25 13:14

Date Received: 03/14/25 08:37

Client Sample ID: FS 02 Lab Sample ID: 890-7811-2

Matrix: Solid

Sample Depth: 6'

Client: Ensolum

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	89	70 - 130	03/17/25 07:47 03/17/25 16:27	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/17/25 16:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/17/25 14:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/17/25 08:14	03/17/25 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/17/25 08:14	03/17/25 14:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/17/25 08:14	03/17/25 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	03/17/25 08:14	03/17/25 14:32	1
o-Terphenyl	136	S1+	70 - 130	03/17/25 08:14	03/17/25 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2220		49.7	mg/Kg			03/18/25 12:42	5

Client Sample ID: FS 03 Lab Sample ID: 890-7811-3 Matrix: Solid

Date Collected: 03/13/25 13:10 Date Received: 03/14/25 08:37

Sample Depth: 6'

Mothod: CIMOAC 9024D	Volatila Organia Compounde (C)	\sim

INICITION. SYVOTO OUZ ID - VO	nathe Organic	Compoun	us (UU)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:48	1
Toluene	< 0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/17/25 07:47	03/17/25 16:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/17/25 07:47	03/17/25 16:48	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/17/25 07:47	03/17/25 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/17/25 07:47	03/17/25 16:48	1
1 4-Difluorobenzene (Surr)	90		70 - 130			03/17/25 07:47	03/17/25 16:48	1

Mothod: TAI	SOP Total BTFX	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg	_		03/17/25 16:48	1

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

Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U		49.8	mg/Kg	_		03/17/25 14:48	1

Matrix: Solid

Lab Sample ID: 890-7811-3

03/18/25 01:59

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: FS 03

Date Collected: 03/13/25 13:10 Date Received: 03/14/25 08:37

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/17/25 08:14	03/17/25 14:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/17/25 08:14	03/17/25 14:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/17/25 08:14	03/17/25 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130			03/17/25 08:14	03/17/25 14:48	1
o-Terphenyl	136	S1+	70 - 130			03/17/25 08:14	03/17/25 14:48	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS 04 Lab Sample ID: 890-7811-4 Date Collected: 03/13/25 13:07 **Matrix: Solid**

49.6

mg/Kg

2170

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

Date Received: 03/14/25 08:37

Chloride

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/17/25 07:47	03/17/25 17:08	1
Toluene	< 0.00201	U	0.00201	mg/Kg		03/17/25 07:47	03/17/25 17:08	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		03/17/25 07:47	03/17/25 17:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/17/25 07:47	03/17/25 17:08	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		03/17/25 07:47	03/17/25 17:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/17/25 07:47	03/17/25 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/17/25 07:47	03/17/25 17:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/17/25 07:47	03/17/25 17:08	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/17/25 17:08	1
Total BTEX				mg/Kg			03/17/25 17:08	1
Total BTEX Method: SW846 8015 NM - Die	esel Range (mg/Kg Unit		Prepared		1 Dil Fac
Total BTEX	esel Range (Organics (Qualifier	DRO) (GC)		<u>D</u>	Prepared	03/17/25 17:08 Analyzed 03/17/25 15:04	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	esel Range (Result <49.7	Organics (Qualifier	DRO) (GC) RL 49.7	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Die Analyte	esel Range (Result <49.7	Organics (Qualifier	DRO) (GC) RL 49.7	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range (Result <49.7	Organics (Qualifier U Organics Qualifier Qualifier	DRO) (GC) RL 49.7	Unit mg/Kg	_ =	<u> </u>	Analyzed 03/17/25 15:04 Analyzed	1
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range (Result <49.7 Diesel Range Result	Organics (Qualifier U Organics Qualifier U	DRO) (GC) RL 49.7 (DRO) (GC) RL	Unit mg/Kg Unit	_ =	Prepared 03/17/25 08:14	Analyzed 03/17/25 15:04 Analyzed	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range (Result <49.7 Piesel Range Result <49.7	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7	Unit mg/Kg Unit mg/Kg	_ =	Prepared 03/17/25 08:14 03/17/25 08:14	Analyzed 03/17/25 15:04 Analyzed 03/17/25 15:04	1 Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range (Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Piesel Range Result <49.7 Piesel Range Result <49.7 Piesel Range	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.7 6 (DRO) (GC) RL 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/17/25 08:14 03/17/25 08:14	Analyzed 03/17/25 15:04 Analyzed 03/17/25 15:04 03/17/25 15:04	1 Dil Fac 1
Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Pesel Range (Result 49.7) Diesel Range (Result 49.7) 449.7 449.7 449.7	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.7 6 (DRO) (GC) RL 49.7 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/17/25 08:14 03/17/25 08:14	Analyzed 03/17/25 15:04 Analyzed 03/17/25 15:04 03/17/25 15:04 03/17/25 15:04 Analyzed	1 Dil Fac 1

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

Lab Sample ID: 890-7811-4

Client Sample ID: FS 04 Date Collected: 03/13/25 13:07 Matrix: Solid Date Received: 03/14/25 08:37

Sample Depth: 6'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	2040	50.1	mg/Kg			03/18/25 02:06	5		

Client Sample ID: FS 07 Lab Sample ID: 890-7811-5

Matrix: Solid

Date Collected: 03/13/25 13:02 Date Received: 03/14/25 08:37

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 17:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 17:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 17:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/17/25 07:47	03/17/25 17:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 17:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/17/25 07:47	03/17/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/17/25 07:47	03/17/25 17:29	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/17/25 07:47	03/17/25 17:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00399	U	0.00399	mg/Kg			03/17/25 17:29	1
	_								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.7	U	49.7	mg/Kg			03/17/25 15:20	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		03/17/25 08:14	03/17/25 15:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/17/25 08:14	03/17/25 15:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/17/25 08:14	03/17/25 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130			03/17/25 08:14	03/17/25 15:20	1
o-Terphenyl	138	S1+	70 - 130			03/17/25 08:14	03/17/25 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	664		9.98	mg/Kg			03/18/25 02:14	1	

Matrix: Solid

Lab Sample ID: 890-7811-6

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: FS 08

Date Collected: 03/13/25 12:57 Date Received: 03/14/25 08:37

Sample Depth: 8'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/25 07:47	03/17/25 17:49	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/17/25 07:47	03/17/25 17:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/17/25 07:47	03/17/25 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/25 07:47	03/17/25 17:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/17/25 07:47	03/17/25 17:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/25 07:47	03/17/25 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			03/17/25 07:47	03/17/25 17:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130			03/17/25 07:47	03/17/25 17:49	1

	Method: IAL SUP Total BTEX -	· lotal BIE	x Caiculat	ion					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00398	U	0.00398	mg/Kg			03/17/25 17:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.6	U	49.6	mg/Kg			03/17/25 15:35	1

Method: SW846 8015B NM - L Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		03/17/25 08:14	03/17/25 15:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		03/17/25 08:14	03/17/25 15:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		03/17/25 08:14	03/17/25 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	150 S1+	70 - 130	03/17/25 08:14	03/17/25 15:35	1
o-Terphenyl	143 S1+	70 - 130	03/17/25 08:14	03/17/25 15:35	1
Method: EPA 300.0 - Anions, I	on Chromatography	- Soluble			

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296	10.0	mg/Kg			03/18/25 02:21	1

Client Sample ID: FS 09 Lab Sample ID: 890-7811-7 Date Collected: 03/13/25 12:52 Date Received: 03/14/25 08:37

Sample Depth: 9'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/18/25 08:37	03/18/25 14:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/18/25 08:37	03/18/25 14:12	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/18/25 08:37	03/18/25 14:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/18/25 08:37	03/18/25 14:12	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/18/25 08:37	03/18/25 14:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/18/25 08:37	03/18/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			03/18/25 08:37	03/18/25 14:12	1

Eurofins Carlsbad

Matrix: Solid

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Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: FS 09 Lab Sample ID: 890-7811-7

Date Collected: 03/13/25 12:52 Matrix: Solid

Date Received: 03/14/25 08:37 Sample Depth: 9'

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

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 03/18/25 08:37 1,4-Difluorobenzene (Surr) 70 - 130 03/18/25 14:12 86

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 03/18/25 14:12

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

D Result Qualifier Unit Prepared Analyzed Dil Fac Total TPH <49.6 U 49.6 mg/Kg 03/17/25 15:51

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

Result Qualifier D Dil Fac **Analyte** Unit Prepared Analyzed <49.6 U 49.6 03/17/25 08:14 03/17/25 15:51 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 49.6 mg/Kg 03/17/25 08:14 03/17/25 15:51 C10-C28) Oil Range Organics (Over C28-C36) <49.6 U 49.6 03/17/25 08:14 03/17/25 15:51 mg/Kg

Dil Fac %Recovery Qualifier Surrogate I imits Prepared Analyzed 70 - 130 03/17/25 08:14 03/17/25 15:51 1-Chlorooctane 148 S1+ o-Terphenyl 141 S1+ 70 - 130 03/17/25 08:14 03/17/25 15:51

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride 801 10.0 mg/Kg 03/18/25 02:28

Client Sample ID: SW 01 Lab Sample ID: 890-7811-8 Matrix: Solid

Date Collected: 03/13/25 14:05 Date Received: 03/14/25 08:37

Sample Depth: 0-9'

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

Analyte Result Qualifier RI Unit D Prepared Dil Fac Analyzed Benzene < 0.00200 U 0.00200 mg/Kg 03/18/25 08:47 03/18/25 14:14 Toluene <0.00200 U 0.00200 mg/Kg 03/18/25 08:47 03/18/25 14:14 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/18/25 08:47 03/18/25 14:14 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 03/18/25 08:47 03/18/25 14:14 o-Xylene <0.00200 U 0.00200 mg/Kg 03/18/25 08:47 03/18/25 14:14 Xylenes, Total <0.00399 U 0.00399 mg/Kg 03/18/25 08:47 03/18/25 14:14 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

99 70 - 130 03/18/25 08:47 4-Bromofluorobenzene (Surr) 03/18/25 14:14 1,4-Difluorobenzene (Surr) 87 70 - 130 03/18/25 08:47 03/18/25 14:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00399 U 0.00399 mg/Kg 03/18/25 14:14

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

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 03/17/25 16:06

Matrix: Solid

Lab Sample ID: 890-7811-8

Client Sample Results

 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Client Sample ID: SW 01

Date Collected: 03/13/25 14:05 Date Received: 03/14/25 08:37

Sample Depth: 0-9'

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/17/25 08:14	03/17/25 16:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/17/25 08:14	03/17/25 16:06	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/17/25 08:14	03/17/25 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130			03/17/25 08:14	03/17/25 16:06	1
o-Terphenyl	135	S1+	70 - 130			03/17/25 08:14	03/17/25 16:06	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		10.0	mg/Kg			03/18/25 02:36	

2

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6

8

1 1

12

Surrogate Summary

 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	rogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7811-1	FS 01	119	95	
890-7811-1 MS	FS 01	105	102	
890-7811-1 MSD	FS 01	103	99	
890-7811-2	FS 02	108	89	
890-7811-3	FS 03	104	90	
890-7811-4	FS 04	108	92	
890-7811-5	FS 07	105	92	
890-7811-6	FS 08	113	93	
890-7811-7	FS 09	97	86	
890-7811-8	SW 01	99	87	
890-7813-A-8-C MS	Matrix Spike	96	93	
890-7813-A-8-D MSD	Matrix Spike Duplicate	99	89	
890-7813-A-15-C MS	Matrix Spike	98	89	
890-7813-A-15-D MSD	Matrix Spike Duplicate	99	88	
LCS 880-105358/1-A	Lab Control Sample	101	101	
LCS 880-105456/1-A	Lab Control Sample	96	92	
LCS 880-105457/1-A	Lab Control Sample	98	91	
LCSD 880-105358/2-A	Lab Control Sample Dup	99	100	
LCSD 880-105456/2-A	Lab Control Sample Dup	97	94	
LCSD 880-105457/2-A	Lab Control Sample Dup	97	90	
MB 880-105358/5-A	Method Blank	109	90	
MB 880-105456/5-A	Method Blank	90	83	
MB 880-105457/5-A	Method Blank	102	81	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent S	urrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7811-1	FS 01	156 S1+	154 S1+	
890-7811-1 MS	FS 01	117	123	
890-7811-1 MSD	FS 01	141 S1+	124	
890-7811-2	FS 02	140 S1+	136 S1+	
890-7811-3	FS 03	143 S1+	136 S1+	
890-7811-4	FS 04	140 S1+	133 S1+	
890-7811-5	FS 07	145 S1+	138 S1+	
890-7811-6	FS 08	150 S1+	143 S1+	
890-7811-7	FS 09	148 S1+	141 S1+	
890-7811-8	SW 01	147 S1+	135 S1+	
LCS 880-105359/2-A	Lab Control Sample	96	104	
LCSD 880-105359/3-A	Lab Control Sample Dup	112	104	
MB 880-105359/1-A	Method Blank	104	108	
Surrogate Legend				
1CO = 1-Chlorooctane				

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OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-105358/5-A

Matrix: Solid

Analysis Batch: 105360

Prep Type: Total/NA

Prep Batch: 105358

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/25 07:47	03/17/25 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/25 07:47	03/17/25 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/25 07:47	03/17/25 11:39	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-105358/1-A

Matrix: Solid

Analysis Batch: 105360

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client Sample ID: Lab Control Sample

03/17/25 07:47 03/17/25 11:39

03/17/25 07:47 03/17/25 11:39

Prep Type: Total/NA

Prep Batch: 105358

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09566		mg/Kg		96	70 - 130	
Toluene	0.100	0.09858		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09257		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1862		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09375		mg/Kg		94	70 - 130	

LCS LCS

109

90

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-105358/2-A

Matrix: Solid

Analysis Batch: 105360

Client Samp	le ID: Lab	Control	Sample D	up
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Prep Type: Total/NA

Prep Batch: 105358

	Spike	LCSD LC	SD		%Rec		RPD
Analyte	Added	Result Qu	alifier Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.09438	mg/Kg	94	70 - 130	1	35
Toluene	0.100	0.09616	mg/Kg	96	70 - 130	2	35
Ethylbenzene	0.100	0.08933	mg/Kg	89	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1775	mg/Kg	89	70 - 130	5	35
o-Xylene	0.100	0.09006	mg/Kg	90	70 - 130	4	35

LCSD LCSD %Recovery Qualifier Limits

Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 99 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-7811-1 MS

Matrix: Solid

Analysis Batch: 105360

Client Sample ID: FS 01 Prep Type: Total/NA

Prep Batch: 105358

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08818		mg/Kg		88	70 - 130	
Toluene	<0.00200	U	0.100	0.09049		mg/Kg		90	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

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

Lab Sample ID: 890-7811-1 MS Client Sample ID: FS 01 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 105360 **Prep Batch: 105358**

	Sample	Sample	Spike	MS	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.08412		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1680		mg/Kg		84	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08561		mg/Kg		86	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7811-1 MSD Client Sample ID: FS 01 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 105360 Prep Batch: 105358

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00200	U	0.100	0.08842		mg/Kg		88	70 - 130	0	35
<0.00200	U	0.100	0.09007		mg/Kg		90	70 - 130	0	35
<0.00200	U	0.100	0.08384		mg/Kg		84	70 - 130	0	35
< 0.00399	U	0.200	0.1674		mg/Kg		84	70 - 130	0	35
<0.00200	U	0.100	0.08626		mg/Kg		86	70 - 130	1	35
	Result <0.00200 <0.00200 <0.00200 <0.00399	Sample Result Qualifier	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Result Qualifier Unit D <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00200

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-105456/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 105454

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 03/18/25 08:37 03/18/25 11:28 Toluene <0.00200 U 0.00200 mg/Kg 03/18/25 08:37 03/18/25 11:28 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/18/25 08:37 03/18/25 11:28 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/18/25 08:37 03/18/25 11:28 o-Xylene <0.00200 U 0.00200 mg/Kg 03/18/25 08:37 03/18/25 11:28 Xylenes, Total <0.00400 U 0.00400 mg/Kg 03/18/25 08:37 03/18/25 11:28

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	03/18/25 08:37	03/18/25 11:28	1
1,4-Difluorobenzene (Surr)	83	70 - 130	03/18/25 08:37	03/18/25 11:28	1

Lab Sample ID: LCS 880-105456/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Analysis Batch: 105454 **Prep Batch: 105456**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07528		mg/Kg		75	70 - 130	
Toluene	0.100	0.07580		mg/Kg		76	70 - 130	
Ethylbenzene	0.100	0.07591		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	0.200	0.1614		mg/Kg		81	70 - 130	

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Prep Batch: 105456

Matrix: Solid

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Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

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

Lab Sample ID: LCS 880-105456/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 105454 Prep Batch: 105456 LCS LCS %Rec Spike

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.08159		mg/Kg		82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-105456/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 105454 Prep Batch: 105456 LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 0.08254 Benzene 0.100 mg/Kg 83 70 - 130 9 35 Toluene 0.100 0.08095 mg/Kg 81 70 - 130 35 Ethylbenzene 0.100 35 0.08146 mg/Kg 81 70 - 130

0.1723

0.08728

mg/Kg

mg/Kg

86

87

70 - 130

70 - 130

Prep Batch: 105456

0.200

0.100

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-7813-A-8-C MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 105454

m-Xylene & p-Xylene

o-Xylene

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.07561		mg/Kg		76	70 - 130	
Toluene	<0.00200	U	0.100	0.07417		mg/Kg		74	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.07467		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1589		mg/Kg		79	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08086		mg/Kg		81	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-7813-A-8-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 105454									Prep Ba	atch: 10)5456
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07145		mg/Kg		71	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.07142		mg/Kg		71	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.07116		mg/Kg		71	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1521		mg/Kg		76	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.07712		mg/Kg		77	70 - 130	5	35

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Client: Ensolum Job ID: 890-7811-1 SDG: 07A1988168 Project/Site: NEDU 164

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

Lab Sample ID: 890-7813-A-8-D MSD

Matrix: Solid

Analysis Batch: 105454

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 105456

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 99 70 - 130 1,4-Difluorobenzene (Surr) 89 70 - 130

Lab Sample ID: MB 880-105457/5-A

Matrix: Solid

Analysis Batch: 105450

Client Sample ID: Method Blank **Prep Type: Total/NA**

Prep Batch: 105457

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/18/25 08:47	03/18/25 11:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/18/25 08:47	03/18/25 11:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/18/25 08:47	03/18/25 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/18/25 08:47	03/18/25 11:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/18/25 08:47	03/18/25 11:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/18/25 08:47	03/18/25 11:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/18/25 08:47	03/18/25 11:29	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/18/25 08:47	03/18/25 11:29	1

Lab Sample ID: LCS 880-105457/1-A

Matrix: Solid

Analysis Batch: 105450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105457

Spike LCS LCS %Rec **Analyte** Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08253 mg/Kg 83 70 - 130 Toluene 0.100 0.07430 mg/Kg 74 70 - 130 0.08006 Ethylbenzene 0.100 mg/Kg 80 70 - 130 m-Xylene & p-Xylene 0.200 0.1641 mg/Kg 82 70 - 130o-Xylene 0.100 0.08398 mg/Kg 84 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-105457/2-A

Matrix: Solid

Analysis Batch: 105450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105457 %Rec **RPD**

Spike LCSD LCSD **Analyte** Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.08447 mg/Kg 84 70 - 130 2 35 Toluene 0.100 0.07580 mg/Kg 76 70 - 130 35 Ethylbenzene 0.100 0.08125 mg/Kg 81 70 - 130 35 mg/Kg 0.200 0.1668 83 70 - 130 2 35 m-Xylene & p-Xylene 0.100 o-Xylene 0.08578 mg/Kg 86 70 - 130 35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

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

Lab Sample ID: LCSD 880-105457/2-A

Matrix: Solid

Analysis Batch: 105450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105457

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 70 - 130 90

Lab Sample ID: 890-7813-A-15-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 105450

Prep Type: Total/NA

Prep Batch: 105457

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.07488		mg/Kg		75	70 - 130	
Toluene	<0.00201	U F1	0.100	0.06642	F1	mg/Kg		66	70 - 130	
Ethylbenzene	<0.00201	U F1	0.100	0.06983		mg/Kg		70	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1424		mg/Kg		71	70 - 130	
o-Xylene	<0.00201	U	0.100	0.07302		mg/Kg		73	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-7813-A-15-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 105450

Prep Type: Total/NA

Prep Batch: 105457

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.07494		mg/Kg		75	70 - 130	0	35
Toluene	<0.00201	U F1	0.100	0.06549	F1	mg/Kg		65	70 - 130	1	35
Ethylbenzene	<0.00201	U F1	0.100	0.06765	F1	mg/Kg		68	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1378	F1	mg/Kg		69	70 - 130	3	35
o-Xylene	<0.00201	U	0.100	0.07088		mg/Kg		71	70 - 130	3	35

MSD MSD

Surrogate	%Recovery Qualified	r Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	88	70 - 130

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

Lab Sample ID: MB 880-105359/1-A

Matrix: Solid

Analysis Batch: 105392

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 105359

		141.0						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/17/25 08:14	03/17/25 10:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/17/25 08:14	03/17/25 10:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/17/25 08:14	03/17/25 10:21	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/17/25 08:14	03/17/25 10:21	1
o-Terphenyl	108		70 - 130	03/17/25 08:14	03/17/25 10:21	1

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

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

Lab Sample ID: LCS 880-105359/2-A

Lab Sample ID: LCSD 880-105359/3-A

Matrix: Solid

Analysis Batch: 105392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105359

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	853.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	901.7		mg/Kg		90	70 - 130	
(GRO)-C6-C10				0 0				

C10-C28)

Matrix: Solid

Analysis Batch: 105392

Analysis Batch: 105392

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 96 70 - 130 o-Terphenyl 104

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 105359**

%Rec **RPD** Limits RPD Limit

LCSD LCSD Spike Analyte Added Result Qualifier D %Rec Unit Gasoline Range Organics 1000 838.0 84 70 - 130 2 20 mg/Kg (GRO)-C6-C10 7 Diesel Range Organics (Over 1000 839.3 mg/Kg 84 70 - 130 20 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 112 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: 890-7811-1 MS Client Sample ID: FS 01 **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 105359

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	9.92	8.705		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.7	U F2 F1	9.92	9.575	F1	mg/Kg		-68	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: 890-7811-1 MSD Client Sample ID: FS 01 **Matrix: Solid** Prep Type: Total/NA

Analysis Ratch: 105392

Analysis Batch: 105392									Prep Ba	aten: 10	Josoy
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	997	881.7	F2	mg/Kg		88	70 - 130	196	20
Diesel Range Organics (Over C10-C28)	<49.7	U F2 F1	997	907.6	F2	mg/Kg		89	70 - 130	196	20
	MSD	MSD									

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 141 S1+ 70 - 130

Client Sample ID: FS 01

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 105359

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

Client: Ensolum Job ID: 890-7811-1 SDG: 07A1988168 Project/Site: NEDU 164

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

Lab Sample ID: 890-7811-1 MSD

Matrix: Solid

Analysis Batch: 105392

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 124 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105399/1-A

Matrix: Solid

Analysis Batch: 105421

MB MB

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 03/17/25 22:55 mg/Kg

Lab Sample ID: LCS 880-105399/2-A

Matrix: Solid

Analysis Batch: 105421

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 250 Chloride 241.5 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-105399/3-A

Matrix: Solid

Analysis Batch: 105421

LCSD LCSD Spike %Rec **RPD** Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 245.0 98 90 - 110 20 mg/Kg

Lab Sample ID: 880-55659-A-1-D MS

Matrix: Solid

Analysis Batch: 105421

MS MS Sample Sample Spike %Rec **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 80.1 F1 248 384.5 F1 mg/Kg 123 90 - 110

Lab Sample ID: 880-55659-A-1-E MSD

Matrix: Solid

Analysis Batch: 105421

MSD MSD **RPD** Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 80.1 F1 248 383.2 F1 122 90 - 110 mg/Kg

Lab Sample ID: 880-55691-A-8-B MS

Matrix: Solid

Analysis Batch: 105421

MS MS %Rec Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits 2730 F1 1250 Chloride 4240 F1 121 90 - 110 mg/Kg

QC Sample Results

Client: Ensolum Job ID: 890-7811-1
Project/Site: NEDU 164 SDG: 07A1988168

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-55691-A-8-C MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analysis Batch: 105421

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2730	F1	1250	4193	F1	mg/Kg		117	90 - 110	1	20

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 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

GC VOA

Prep Batch: 105358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Total/NA	Solid	5035	
890-7811-2	FS 02	Total/NA	Solid	5035	
890-7811-3	FS 03	Total/NA	Solid	5035	
890-7811-4	FS 04	Total/NA	Solid	5035	
890-7811-5	FS 07	Total/NA	Solid	5035	
890-7811-6	FS 08	Total/NA	Solid	5035	
MB 880-105358/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105358/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105358/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7811-1 MS	FS 01	Total/NA	Solid	5035	
890-7811-1 MSD	FS 01	Total/NA	Solid	5035	

Analysis Batch: 105360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Total/NA	Solid	8021B	105358
890-7811-2	FS 02	Total/NA	Solid	8021B	105358
890-7811-3	FS 03	Total/NA	Solid	8021B	105358
890-7811-4	FS 04	Total/NA	Solid	8021B	105358
890-7811-5	FS 07	Total/NA	Solid	8021B	105358
890-7811-6	FS 08	Total/NA	Solid	8021B	105358
MB 880-105358/5-A	Method Blank	Total/NA	Solid	8021B	105358
LCS 880-105358/1-A	Lab Control Sample	Total/NA	Solid	8021B	105358
LCSD 880-105358/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105358
890-7811-1 MS	FS 01	Total/NA	Solid	8021B	105358
890-7811-1 MSD	FS 01	Total/NA	Solid	8021B	105358

Analysis Batch: 105426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Total/NA	Solid	Total BTEX	
890-7811-2	FS 02	Total/NA	Solid	Total BTEX	
890-7811-3	FS 03	Total/NA	Solid	Total BTEX	
890-7811-4	FS 04	Total/NA	Solid	Total BTEX	
890-7811-5	FS 07	Total/NA	Solid	Total BTEX	
890-7811-6	FS 08	Total/NA	Solid	Total BTEX	
890-7811-7	FS 09	Total/NA	Solid	Total BTEX	
890-7811-8	SW 01	Total/NA	Solid	Total BTEX	

Analysis Batch: 105450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-8	SW 01	Total/NA	Solid	8021B	105457
MB 880-105457/5-A	Method Blank	Total/NA	Solid	8021B	105457
LCS 880-105457/1-A	Lab Control Sample	Total/NA	Solid	8021B	105457
LCSD 880-105457/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105457
890-7813-A-15-C MS	Matrix Spike	Total/NA	Solid	8021B	105457
890-7813-A-15-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	105457

Analysis Batch: 105454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-7 MB 880-105456/5-A	FS 09 Method Blank	Total/NA Total/NA	Solid Solid	8021B 8021B	105456 105456
LCS 880-105456/1-A	Lab Control Sample	Total/NA	Solid	8021B	105456
LCS 000-103430/1-A	Lab Control Sample	IOlai/INA	Solid	002 ID	103430

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Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

GC VOA (Continued)

Analysis Batch: 105454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-105456/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105456
890-7813-A-8-C MS	Matrix Spike	Total/NA	Solid	8021B	105456
890-7813-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	105456

Prep Batch: 105456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-7	FS 09	Total/NA	Solid	5035	
MB 880-105456/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105456/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105456/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7813-A-8-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7813-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 105457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-8	SW 01	Total/NA	Solid	5035	
MB 880-105457/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105457/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105457/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7813-A-15-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7813-A-15-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 105359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Total/NA	Solid	8015NM Prep	
890-7811-2	FS 02	Total/NA	Solid	8015NM Prep	
890-7811-3	FS 03	Total/NA	Solid	8015NM Prep	
890-7811-4	FS 04	Total/NA	Solid	8015NM Prep	
890-7811-5	FS 07	Total/NA	Solid	8015NM Prep	
890-7811-6	FS 08	Total/NA	Solid	8015NM Prep	
890-7811-7	FS 09	Total/NA	Solid	8015NM Prep	
890-7811-8	SW 01	Total/NA	Solid	8015NM Prep	
MB 880-105359/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105359/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105359/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7811-1 MS	FS 01	Total/NA	Solid	8015NM Prep	
890-7811-1 MSD	FS 01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Total/NA	Solid	8015B NM	105359
890-7811-2	FS 02	Total/NA	Solid	8015B NM	105359
890-7811-3	FS 03	Total/NA	Solid	8015B NM	105359
890-7811-4	FS 04	Total/NA	Solid	8015B NM	105359
890-7811-5	FS 07	Total/NA	Solid	8015B NM	105359
890-7811-6	FS 08	Total/NA	Solid	8015B NM	105359
890-7811-7	FS 09	Total/NA	Solid	8015B NM	105359
890-7811-8	SW 01	Total/NA	Solid	8015B NM	105359
MB 880-105359/1-A	Method Blank	Total/NA	Solid	8015B NM	105359

 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

GC Semi VOA (Continued)

Analysis Batch: 105392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-105359/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105359
LCSD 880-105359/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105359
890-7811-1 MS	FS 01	Total/NA	Solid	8015B NM	105359
890-7811-1 MSD	FS 01	Total/NA	Solid	8015B NM	105359

Analysis Batch: 105511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Total/NA	Solid	8015 NM	
890-7811-2	FS 02	Total/NA	Solid	8015 NM	
890-7811-3	FS 03	Total/NA	Solid	8015 NM	
890-7811-4	FS 04	Total/NA	Solid	8015 NM	
890-7811-5	FS 07	Total/NA	Solid	8015 NM	
890-7811-6	FS 08	Total/NA	Solid	8015 NM	
890-7811-7	FS 09	Total/NA	Solid	8015 NM	
890-7811-8	SW 01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 105399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Soluble	Solid	DI Leach	
890-7811-2	FS 02	Soluble	Solid	DI Leach	
890-7811-3	FS 03	Soluble	Solid	DI Leach	
890-7811-4	FS 04	Soluble	Solid	DI Leach	
890-7811-5	FS 07	Soluble	Solid	DI Leach	
890-7811-6	FS 08	Soluble	Solid	DI Leach	
890-7811-7	FS 09	Soluble	Solid	DI Leach	
890-7811-8	SW 01	Soluble	Solid	DI Leach	
MB 880-105399/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105399/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105399/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55659-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-55659-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-55691-A-8-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-55691-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 105421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7811-1	FS 01	Soluble	Solid	300.0	105399
890-7811-2	FS 02	Soluble	Solid	300.0	105399
890-7811-3	FS 03	Soluble	Solid	300.0	105399
890-7811-4	FS 04	Soluble	Solid	300.0	105399
890-7811-5	FS 07	Soluble	Solid	300.0	105399
890-7811-6	FS 08	Soluble	Solid	300.0	105399
890-7811-7	FS 09	Soluble	Solid	300.0	105399
890-7811-8	SW 01	Soluble	Solid	300.0	105399
MB 880-105399/1-A	Method Blank	Soluble	Solid	300.0	105399
LCS 880-105399/2-A	Lab Control Sample	Soluble	Solid	300.0	105399
LCSD 880-105399/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105399
880-55659-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	105399
880-55659-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	105399

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 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

HPLC/IC (Continued)

Analysis Batch: 105421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55691-A-8-B MS	Matrix Spike	Soluble	Solid	300.0	105399
880-55691-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	105399

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Date Received: 03/14/25 08:37

Client: Ensolum Job ID: 890-7811-1 Project/Site: NEDU 164 SDG: 07A1988168

Lab Sample ID: 890-7811-1

Client Sample ID: FS 01 Date Collected: 03/13/25 13:17 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105358	03/17/25 07:47	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105360	03/17/25 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105426	03/17/25 12:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105511	03/17/25 12:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105359	03/17/25 08:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105392	03/17/25 12:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105399	03/17/25 12:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105421	03/18/25 01:30	CH	EET MID

Client Sample ID: FS 02 Lab Sample ID: 890-7811-2 Date Collected: 03/13/25 13:14 **Matrix: Solid**

Date Received: 03/14/25 08:37

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount **Analyst** Lab Total/NA Prep 5035 105358 03/17/25 07:47 AA EET MID 4.95 g 5 mL Total/NA 8021B 5 mL 105360 03/17/25 16:27 MNR **EET MID** Analysis 5 mL 1 Total/NA Total BTEX 03/17/25 16:27 AJ Analysis 1 105426 **EET MID** Total/NA 8015 NM 105511 03/17/25 14:32 AJ **EET MID** Analysis 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 105359 03/17/25 08:14 FC **EET MID** Total/NA 8015B NM 105392 03/17/25 14:32 TKC **EET MID** Analysis 1 uL 1 uL Soluble 5.03 g 50 mL 105399 03/17/25 12:55 SA Leach DI Leach **EET MID** Soluble 300.0 03/18/25 12:42 CH Analysis 5 50 mL 50 mL 105421 **EET MID**

Client Sample ID: FS 03 Lab Sample ID: 890-7811-3 Date Collected: 03/13/25 13:10 Matrix: Solid

Date Received: 03/14/25 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		4.95 g	5 mL	105358	03/17/25 07:47	AA	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	105360	03/17/25 16:48	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			105426	03/17/25 16:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105511	03/17/25 14:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105359	03/17/25 08:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105392	03/17/25 14:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105399	03/17/25 12:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105421	03/18/25 01:59	CH	EET MID

Client Sample ID: FS 04 Lab Sample ID: 890-7811-4 Date Collected: 03/13/25 13:07 Matrix: Solid

Date Received: 03/14/25 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	105358	03/17/25 07:47	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105360	03/17/25 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105426	03/17/25 17:08	AJ	EET MID

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Date Received: 03/14/25 08:37

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

Job ID: 890-7811-1

EET MID

EET MID

Client: Ensolum Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: FS 04 Lab Sample ID: 890-7811-4 Date Collected: 03/13/25 13:07

Matrix: Solid

03/17/25 12:55 SA

03/18/25 02:06 CH

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run **Amount** Amount Lab Total/NA 8015 NM 105511 03/17/25 15:04 AJ EET MID Analysis Total/NA **EET MID** Prep 8015NM Prep 10.06 g 10 mL 105359 03/17/25 08:14 FC Total/NA Analysis 8015B NM 1 uL 1 uL 105392 03/17/25 15:04 TKC **EET MID**

Client Sample ID: FS 07 Lab Sample ID: 890-7811-5

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Date Collected: 03/13/25 13:02 **Matrix: Solid** Date Received: 03/14/25 08:37

4.99 g

50 mL

50 mL

50 mL

105399

105421

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105358	03/17/25 07:47	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105360	03/17/25 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105426	03/17/25 17:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105511	03/17/25 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105359	03/17/25 08:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105392	03/17/25 15:20	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105399	03/17/25 12:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105421	03/18/25 02:14	CH	EET MID

Client Sample ID: FS 08 Lab Sample ID: 890-7811-6 **Matrix: Solid**

Date Collected: 03/13/25 12:57 Date Received: 03/14/25 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	105358	03/17/25 07:47	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105360	03/17/25 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105426	03/17/25 17:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105511	03/17/25 15:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105359	03/17/25 08:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105392	03/17/25 15:35	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105399	03/17/25 12:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105421	03/18/25 02:21	CH	EET MID

Client Sample ID: FS 09 Lab Sample ID: 890-7811-7 Date Collected: 03/13/25 12:52 **Matrix: Solid**

Date Received: 03/14/25 08:37

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	105456	03/18/25 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105454	03/18/25 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105426	03/18/25 14:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105511	03/17/25 15:51	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.09 g 1 uL	10 mL 1 uL	105359 105392	03/17/25 08:14 03/17/25 15:51	FC TKC	EET MID EET MID

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3/20/2025

Job ID: 890-7811-1 SDG: 07A1988168

Client Sample ID: FS 09

Date Received: 03/14/25 08:37

Project/Site: NEDU 164

Client: Ensolum

Lab Sample ID: 890-7811-7 Date Collected: 03/13/25 12:52

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Factor Number or Analyzed Analyst Type Run **Amount Amount** Lab Soluble Leach DI Leach 5.00 g 50 mL 105399 03/17/25 12:55 SA EET MID Soluble 300.0 03/18/25 02:28 CH Analysis 50 mL 50 mL 105421 **EET MID** 1

Client Sample ID: SW 01 Lab Sample ID: 890-7811-8

Date Collected: 03/13/25 14:05 **Matrix: Solid** Date Received: 03/14/25 08:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105457	03/18/25 08:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105450	03/18/25 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105426	03/18/25 14:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105511	03/17/25 16:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	105359	03/17/25 08:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105392	03/17/25 16:06	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105399	03/17/25 12:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105421	03/18/25 02:36	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-7811-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Laboratory: Eurofins Midland

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

uthority	Progra	am	Identification Number	Expiration Date
exas	NELAI	Р	T104704400	06-30-25
The following analyte	s are included in this reno	rt but the laboratory is a	not certified by the governing authori	ity. This list may inclu
THE IUIUWING analyte	s are included in this repu	it, but the laboratory is i	ior cermied by the doverning authori	ity. Triis iist iiiay iiibit
,	does not offer certification	•	lot certified by the governing authori	ity. This list may incit
,	•	•	Analyte	ity. This list may more
for which the agency	does not offer certification	i.	, , ,	ny. Triis iist may iirdi

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Method Summary

Client: Ensolum

Project/Site: NEDU 164

Job ID: 890-7811-1 SDG: 07A1988168

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: NEDU 164

Job ID: 890-7811-1 SDG: 07A1988168

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7811-1	FS 01	Solid	03/13/25 13:17	03/14/25 08:37	5'
890-7811-2	FS 02	Solid	03/13/25 13:14	03/14/25 08:37	6'
890-7811-3	FS 03	Solid	03/13/25 13:10	03/14/25 08:37	6'
890-7811-4	FS 04	Solid	03/13/25 13:07	03/14/25 08:37	6'
890-7811-5	FS 07	Solid	03/13/25 13:02	03/14/25 08:37	6'
890-7811-6	FS 08	Solid	03/13/25 12:57	03/14/25 08:37	8'
890-7811-7	FS 09	Solid	03/13/25 12:52	03/14/25 08:37	9'
890-7811-8	SW 01	Solid	03/13/25 14:05	03/14/25 08:37	0-9'

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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 Carlshad NM (575) 988-3199

Work Order No:	

					-9		110000	,		2-7330,	Ganos	,	(,							www.	xenco	.com	Page		_ of	
Project Manager:	Devin	Hencmar	nn			Bill to: (if	different)	Billy G	inn										Work Order Comments						
Company Name:	Ensolu	ım, LLC				Company	y Name	:	Hilcorp				Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund [ıd 🔲							
Address:	3122 N	National F	Parks H	wy		Address:						State of Project:					_									
City, State ZIP:	Carlsb	ad, NM 8	8220			City, State ZIP:					_	Reporting: Level II Level III PST/UST TRRP Level IV					∨⊔∣									
Phone:	805-79	98-2608			Email:	dhencmann@ensolum.com; fsmith@ensolum.com						Deliverables: EDD ADaPT Other:														
Project Name:		NED	DU 164		Turn	n Around				ANALYSIS RE				REQ	EQUEST				Preservative Codes							
Project Number:	07A1988168			☑ Routine	☑ Routine ☐ Rush		Pres. Code															None: NO		DI Water:	H ₂ O	
Project Location:	32	2.518088	, -103.1	44784	Due Date:													İ	l				Cool: Coo		МеОН: Ме	e
Sampler's Name:		Alex	Ferrell			the day received by received by 4:30pm															HCL: HC H ₂ S0 ₄ : H ₂		HNO₃: HN NaOH: Na			
SAMPLE RECEI	E RECEIPT Temp Blank:		Yes No) Wet Ice:	(Yes-)	No	ameter														H₃PO₄: HI					
Samples Received Intact: Yes No Ther Cooler Custody Seals: Yes No N/A Corr			Thermometer		Tun	(C)						 										NaHSO₄:				
		. /		-0.2		Pa				١ ،	1 1 1			01 00					1	Na ₂ S ₂ O ₃ :		_				
Sample Custody Sea	ıls:	Yes No	N/A	Temperature		1. 2	<u>, </u>																Zn Acetat			
Total Containers:				Corrected T	emperature:	1.0)		des									1					NaOH+As	COLDIC E	Cia: SAPC	
Sample Ider	tificatio	on	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	ТРН	втех												San	ple Co	mments	
FS0	1		Soil	3/13/2025	1317	5'	Comp	1	Х	Х	Х										<u></u>					
FS0	2		Soil	3/13/2025	1314	6'	Comp	1	Х	Х	Х															
FS0	3		Soil	3/13/2025	1310	6'	Comp	1	Х	Х	Х											<u> </u>				
FS0	4		Soil	3/13/2025	1307			1	Х	Х	Х							<u> </u>		ļ						
FS0	7		Soil	3/13/2025	1302		Comp	1	Х	Х	Х						ļ	<u> </u>	<u> </u>		ļ					
FS0	8		Soil	3/13/2025	1257	8'	Comp	1	Х	Х	Х						ļ	<u> </u>	ļ	<u> </u>	ļ	_				
FS0	9		Soil	3/13/2025	1252	9'	Comp	1	Х	Х	Х							<u> </u>								
SW)1		Soil	3/13/2025	1405	0-9'	Comp	1	Х	Х	Х							<u>.</u>	ļ	ļ		-				
																			-			_				
																	ļ	<u> </u>		l	L					
Total 200.7 / 60 Circle Method(s) a		200.8 / 6 al(s) to b			RCRA 13F												_			(Se	-		Na Sr TI : / 245.1 / 7			
of service. Eurofins Xen	tice: 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 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 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.																									

Date/Time Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time

Revised Date: 08/25/2020 Rev. 2020.2









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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7811-1 SDG Number: 07A1988168

Login Number: 7811 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Bruns, Shannon

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: 890-7811-1

SDG Number: 07A1988168

Login Number: 7811 List Source: Eurofins Midland
List Number: 2 List Creation: 03/17/25 08:15 AM

Creator: Rios, Minerva

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.	N/A	
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	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devin Hencmann Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 4/18/2025 6:19:05 PM

JOB DESCRIPTION

NEDU 164 07A1988168

JOB NUMBER

890-7934-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 4/18/2025 6:19:05 PM

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

Client: Ensolum
Project/Site: NEDU 164
Laboratory Job ID: 890-7934-1
SDG: 07A1988168

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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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 Job ID: 890-7934-1 Project: NEDU 164

Job ID: 890-7934-1 Eurofins Carlsbad

Job Narrative 890-7934-1

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

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

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

Receipt

The samples were received on 4/14/2025 3:44 PM. 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 3.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-7934-1), SW02 (890-7934-2), SW03 (890-7934-3), SW04 (890-7934-4), SW05 (890-7934-5), SW06 (890-7934-6), SW07 (890-7934-7), SW08 (890-7934-8) and SW09 (890-7934-9).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107640 and analytical batch 880-107929 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW01 (890-7934-1), SW02 (890-7934-2), SW03 (890-7934-3), SW04 (890-7934-4), SW05 (890-7934-5), SW06 (890-7934-6), SW07 (890-7934-7), SW08 (890-7934-8), SW09 (890-7934-9), (LCS 880-107640/2-A), (LCSD 880-107640/3-A), (MB 880-107640/1-A), (880-56864-A-25-C), (880-56864-A-25-D MS) and (880-56864-A-25-E MSD). Evidence of matrix interferences is not obvious.

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.

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Matrix: Solid

Lab Sample ID: 890-7934-1

04/16/25 17:21

Client Sample Results

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Client Sample ID: SW01

Date Collected: 04/14/25 10:51 Date Received: 04/14/25 15:44

Sample Depth: 0-4

Total BTEX

<0.00202	П						
	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 17:21	1
<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 17:21	1
<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 17:21	1
<0.00403	U	0.00403	mg/Kg		04/15/25 10:30	04/16/25 17:21	1
<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 17:21	1
<0.00403	U	0.00403	mg/Kg		04/15/25 10:30	04/16/25 17:21	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
80		70 - 130			04/15/25 10:30	04/16/25 17:21	1
91		70 - 130			04/15/25 10:30	04/16/25 17:21	1
	<0.00202 <0.00403 <0.00202 <0.00403 %Recovery 80	<0.00202 U <0.00403 U <0.00202 U <0.00403 U <0.00403 U **Recovery Qualifier 80	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Total TPH	<50.1 U	50.1	mg/Kg			04/18/25 01:54	1	

0.00403

mg/Kg

Method: SW846 8015B NM - Dies	sel Range Orga	inics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		04/14/25 14:45	04/18/25 01:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/14/25 14:45	04/18/25 01:54	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/14/25 14:45	04/18/25 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130			04/14/25 14:45	04/18/25 01:54	1
o-Terphenyl	176	S1+	70 - 130			04/14/25 14:45	04/18/25 01:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	161	9.90	mg/Kg			04/16/25 09:14	1

Client Sample ID: SW02 Lab Sample ID: 890-7934-2

<0.00403 U

Date Collected: 04/14/25 10:54 Date Received: 04/14/25 15:44

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/15/25 10:30	04/16/25 17:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/15/25 10:30	04/16/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			04/15/25 10:30	04/16/25 17:42	1

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Matrix: Solid

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1/10/2025

Job ID: 890-7934-1

Client: Ensolum SDG: 07A1988168 Project/Site: NEDU 164

Client Sample ID: SW02 Lab Sample ID: 890-7934-2 Date Collected: 04/14/25 10:54 **Matrix: Solid**

Date Received: 04/14/25 15:44 Sample Depth: 0-4

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

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	04/15/25 10:30	04/16/25 17:42	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/16/25 17:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.5	U	50.5	mg/Kg			04/18/25 02:15	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		04/14/25 14:45	04/18/25 02:15	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		04/14/25 14:45	04/18/25 02:15	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		04/14/25 14:45	04/18/25 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			04/14/25 14:45	04/18/25 02:15	1

Method: EPA 300.0 - Anions, Ion Chron Analyte	matography - Soluble Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Tatalka di EDA 200 0 Antique del Obras								
o-Terphenyl	162 S1+	70 - 130		i	04/14/25 14:45	04/18/25 02:15	1	

Client Sample ID: SW03 Lab Sample ID: 890-7934-3

110

Result Qualifier

<49.9 U

10.1

mg/Kg

Unit

mg/Kg

Prepared

Date Collected: 04/14/25 10:56 Date Received: 04/14/25 15:44

Sample Denth: 0-4

Chloride

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 18:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 18:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/15/25 10:30	04/16/25 18:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 18:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/15/25 10:30	04/16/25 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			04/15/25 10:30	04/16/25 18:02	1
1,4-Difluorobenzene (Surr)	81		70 - 130			04/15/25 10:30	04/16/25 18:02	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg		-	04/16/25 18:02	1

Eurofins Carlsbad

Dil Fac

Analyzed

04/18/25 02:36

04/16/25 09:21

Matrix: Solid

RL

49.9

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

Matrix: Solid

Job ID: 890-7934-1

Client: Ensolum Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: SW03 Lab Sample ID: 890-7934-3 Date Collected: 04/14/25 10:56 Date Received: 04/14/25 15:44

Sample Depth: 0-4

Method: SW846 8015B NM - Dies	el Range Orga	ınics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/14/25 14:45	04/18/25 02:36	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/14/25 14:45	04/18/25 02:36	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/14/25 14:45	04/18/25 02:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	156	S1+	70 - 130			04/14/25 14:45	04/18/25 02:36	
o-Terphenyl	166	S1+	70 - 130			04/14/25 14:45	04/18/25 02:36	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	152	-	9.94	mg/Kg			04/16/25 09:43	-

Client Sample ID: SW04 Lab Sample ID: 890-7934-4 Matrix: Solid

Date Collected: 04/14/25 10:59 Date Received: 04/14/25 15:44

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 18:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 18:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 18:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/15/25 10:30	04/16/25 18:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 18:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/15/25 10:30	04/16/25 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			04/15/25 10:30	04/16/25 18:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/15/25 10:30	04/16/25 18:23	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/16/25 18:23	1
-								
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/18/25 02:56	Dil Fac
Analyte Total TPH	Result <49.7	Qualifier U	RL 49.7		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7 sel Range Orga	Qualifier U	49.7		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.7 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.7	mg/Kg			04/18/25 02:56	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.7 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.7 (GC)	mg/Kg		Prepared	04/18/25 02:56 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.7 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC)	mg/Kg		Prepared	04/18/25 02:56 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45	04/18/25 02:56 Analyzed 04/18/25 02:56 04/18/25 02:56	Dil Fac
Analyte	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.7	mg/Kg Unit mg/Kg		Prepared 04/14/25 14:45	04/18/25 02:56 Analyzed 04/18/25 02:56	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.7 sel Range Orga Result <49.7 <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45	04/18/25 02:56 Analyzed 04/18/25 02:56 04/18/25 02:56	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45 04/14/25 14:45	04/18/25 02:56 Analyzed 04/18/25 02:56 04/18/25 02:56 04/18/25 02:56	1 Dil Fac

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4/18/2025

Job ID: 890-7934-1

Client: Ensolum Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: SW04 Lab Sample ID: 890-7934-4 Date Collected: 04/14/25 10:59

Matrix: Solid

Date Received: 04/14/25 15:44 Sample Depth: 0-4

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.0	mg/Kg			04/16/25 09:50	1

Client Sample ID: SW05 Lab Sample ID: 890-7934-5 Matrix: Solid

Date Collected: 04/14/25 11:02 Date Received: 04/14/25 15:44

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 18:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 18:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 18:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/15/25 10:30	04/16/25 18:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 18:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/15/25 10:30	04/16/25 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			04/15/25 10:30	04/16/25 18:44	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/15/25 10:30	04/16/25 18:44	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/16/25 18:44	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (G0	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			04/18/25 03:17	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		04/14/25 14:45	04/18/25 03:17	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		04/14/25 14:45	04/18/25 03:17	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		04/14/25 14:45	04/18/25 03:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130			04/14/25 14:45	04/18/25 03:17	1
o-Terphenyl	192	S1+	70 - 130			04/14/25 14:45	04/18/25 03:17	1

Method: EPA 300.0 - Anions, Ion Ch	nromatograpi	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.0	mg/Kg			04/16/25 13:48	1

Client: Ensolum Job ID: 890-7934-1 Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: SW06 Lab Sample ID: 890-7934-6

Date Collected: 04/14/25 11:05 Matrix: Solid Date Received: 04/14/25 15:44

Sample Depth: 4-5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 19:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 19:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 19:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/15/25 10:30	04/16/25 19:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 19:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/15/25 10:30	04/16/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			04/15/25 10:30	04/16/25 19:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/15/25 10:30	04/16/25 19:04	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/16/25 19:04	1
			•	Unit	_	Dropored	Anglyzod	Dil Eco
Method: SW846 8015 NM - Diese			•	Unit	_	Dropored	Anglyzod	Dil Ess
Analyte Total TPH		Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/18/25 03:37	Dil Fac
Analyte Total TPH	Result	Qualifier U	RL 49.8		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.8	Qualifier U	RL 49.8	mg/Kg		<u> </u>	04/18/25 03:37	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <49.8 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg	<u>D</u>	Prepared	04/18/25 03:37 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8	mg/Kg		<u> </u>	04/18/25 03:37	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	04/18/25 03:37 Analyzed	1 Dil Fac
Analyte	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 04/14/25 14:45	04/18/25 03:37 Analyzed 04/18/25 03:37	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 04/14/25 14:45	04/18/25 03:37 Analyzed 04/18/25 03:37	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45	04/18/25 03:37 Analyzed 04/18/25 03:37 04/18/25 03:37	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45 04/14/25 14:45	04/18/25 03:37 Analyzed 04/18/25 03:37 04/18/25 03:37 04/18/25 03:37	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier S1+	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45 04/14/25 14:45 Prepared	04/18/25 03:37 Analyzed 04/18/25 03:37 04/18/25 03:37 04/18/25 03:37 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier S1+ S1+	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45 04/14/25 14:45 Prepared 04/14/25 14:45	04/18/25 03:37 Analyzed 04/18/25 03:37 04/18/25 03:37 04/18/25 03:37 Analyzed 04/18/25 03:37	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier S1+ S1+	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/25 14:45 04/14/25 14:45 04/14/25 14:45 Prepared 04/14/25 14:45	04/18/25 03:37 Analyzed 04/18/25 03:37 04/18/25 03:37 04/18/25 03:37 Analyzed 04/18/25 03:37	1 1 1 Dil Fac

Client Sample ID: SW07 Lab Sample ID: 890-7934-7

Date Collected: 04/14/25 11:07 Date Received: 04/14/25 15:44

Sample Depth: 4-6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 19:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 19:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 19:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/15/25 10:30	04/16/25 19:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/15/25 10:30	04/16/25 19:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/15/25 10:30	04/16/25 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			04/15/25 10:30	04/16/25 19:25	1

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Matrix: Solid

Job ID: 890-7934-1

Client: Ensolum SDG: 07A1988168 Project/Site: NEDU 164

Client Sample ID: SW07 Lab Sample ID: 890-7934-7 Date Collected: 04/14/25 11:07 **Matrix: Solid**

Date Received: 04/14/25 15:44 Sample Depth: 4-6

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	94	70 - 130	04/15/25 10:30	04/16/25 19:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			04/16/25 19:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/18/25 03:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/14/25 14:45	04/18/25 03:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/14/25 14:45	04/18/25 03:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/14/25 14:45	04/18/25 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	04/14/25 14:45	04/18/25 03:57	1
o-Terphenyl	162	S1+	70 - 130	04/14/25 14:45	04/18/25 03:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		9.92	mg/Kg			04/16/25 14:02	1

Lab Sample ID: 890-7934-8 **Client Sample ID: SW08**

Date Collected: 04/14/25 11:11 Date Received: 04/14/25 15:44

Sample Depth: 4-6

Method: SW846 8021B -	M-1-4!1- O	0 (00)

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 19:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 19:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 19:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/15/25 10:30	04/16/25 19:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/15/25 10:30	04/16/25 19:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/15/25 10:30	04/16/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			04/15/25 10:30	04/16/25 19:45	1

Surrogate	%Recovery	Qualifier Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	04/15/25 10:30	04/16/25 19:45	1
1,4-Difluorobenzene (Surr)	80	70 - 130	04/15/25 10:30	04/16/25 19:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/16/25 19:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/18/25 04:19	1

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Matrix: Solid

Job ID: 890-7934-1 Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: SW08 Lab Sample ID: 890-7934-8

Date Collected: 04/14/25 11:11 Matrix: Solid Date Received: 04/14/25 15:44

Sample Depth: 4-6

Client: Ensolum

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/14/25 14:45	04/18/25 04:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/14/25 14:45	04/18/25 04:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/14/25 14:45	04/18/25 04:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			04/14/25 14:45	04/18/25 04:19	1
o-Terphenyl	165	S1+	70 - 130			04/14/25 14:45	04/18/25 04:19	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		10.1	mg/Kg			04/16/25 14:09	1

Lab Sample ID: 890-7934-9 **Client Sample ID: SW09** Date Collected: 04/14/25 11:58 Matrix: Solid

Date Received: 04/14/25 15:44

Sample Depth: 4-9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 20:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 20:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 20:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/15/25 10:30	04/16/25 20:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/15/25 10:30	04/16/25 20:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/15/25 10:30	04/16/25 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			04/15/25 10:30	04/16/25 20:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130			04/15/25 10:30	04/16/25 20:06	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/16/25 20:06	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			04/18/25 04:39	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		04/14/25 14:45	04/18/25 04:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		04/14/25 14:45	04/18/25 04:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/14/25 14:45	04/18/25 04:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	193	S1+	70 - 130			04/14/25 14:45	04/18/25 04:39	1

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Client Sample ID: SW09 Lab Sample ID: 890-7934-9

Date Collected: 04/14/25 11:58

Date Received: 04/14/25 15:44

Sample Depth: 4-9

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	е					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	674		10.0	mg/Kg			04/16/25 14:16	1

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Surrogate Summary

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptai
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7934-1	SW01	80	91	
890-7934-1 MS	SW01	102	93	
890-7934-1 MSD	SW01	102	98	
890-7934-2	SW02	84	97	
890-7934-3	SW03	94	81	
890-7934-4	SW04	88	97	
890-7934-5	SW05	86	98	
890-7934-6	SW06	86	100	
890-7934-7	SW07	89	94	
890-7934-8	SW08	89	80	
890-7934-9	SW09	85	97	
LCS 880-107721/1-A	Lab Control Sample	103	102	
LCSD 880-107721/2-A	Lab Control Sample Dup	102	111	
MB 880-107721/5-A	Method Blank	84	98	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-56864-A-25-D MS	Matrix Spike	174 S1+	186 S1+	
880-56864-A-25-E MSD	Matrix Spike Duplicate	153 S1+	161 S1+	
390-7934-1	SW01	163 S1+	176 S1+	
390-7934-2	SW02	150 S1+	162 S1+	
390-7934-3	SW03	156 S1+	166 S1+	
390-7934-4	SW04	155 S1+	168 S1+	
390-7934-5	SW05	178 S1+	192 S1+	
390-7934-6	SW06	157 S1+	171 S1+	
390-7934-7	SW07	150 S1+	162 S1+	
390-7934-8	SW08	150 S1+	165 S1+	
390-7934-9	SW09	193 S1+	217 S1+	
CS 880-107640/2-A	Lab Control Sample	354 S1+	352 S1+	
CSD 880-107640/3-A	Lab Control Sample Dup	473 S1+	498 S1+	
MB 880-107640/1-A	Method Blank	154 S1+	170 S1+	
Surrogate Legend				

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OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-7934-1 SDG: 07A1988168 Project/Site: NEDU 164

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107721/5-A

Matrix: Solid

Analysis Batch: 107890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107721

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/15/25 10:30	04/16/25 17:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/15/25 10:30	04/16/25 17:00	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/15/25 10:30	04/16/25 17:00	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/15/25 10:30	04/16/25 17:00	1

Lab Sample ID: LCS 880-107721/1-A

Matrix: Solid

Analysis Batch: 107890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107721

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09488	-	mg/Kg		95	70 - 130	
Toluene	0.100	0.08576		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09824		mg/Kg		98	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-107721/2-A

Matrix: Solid

Analysis Batch: 107890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 107721

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09792		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.08533		mg/Kg		85	70 - 130	1	35
Ethylbenzene	0.100	0.1045		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1924		mg/Kg		96	70 - 130	0	35
o-Xylene	0.100	0.09694		mg/Kg		97	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	102	70 _ 130
1 4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 890-7934-1 MS

Matrix: Solid

Analysis Batch: 107890

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 107721

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.09661		mg/Kg	_	97	70 - 130	
Toluene	<0.00202	U	0.100	0.08928		mg/Kg		89	70 - 130	

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Job ID: 890-7934-1 Client: Ensolum Project/Site: NEDU 164 SDG: 07A1988168

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

Lab Sample ID: 890-**Matrix: Solid**

Analysis Batch: 107890

0-7934-1 MS	Client Sample ID: SW01
	Prep Type: Total/NA
7890	Prep Batch: 107721

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U 0.100 0.1085 109 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00403 0.200 0.1978 mg/Kg 99 70 - 130 0.100 o-Xylene <0.00202 U 0.1010 101 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-7934-1 MSD

Matrix: Solid

Analysis Batch: 107890

Client Sample ID: SW01 Prep Type: Total/NA Prep Batch: 107721

MSD MSD %Rec RPD RPD Limit Unit %Rec Limits mg/Kg 97 70 - 130 35 35

Result Qualifier Added Analyte Result Qualifier Benzene <0.00202 U 0.100 0.09748 Toluene <0.00202 U 0.100 0.08350 mg/Kg 84 70 - 130 Ethylbenzene <0.00202 U 0.100 0.1082 108 70 - 130 35 mg/Kg 0 0.200 35 m-Xylene & p-Xylene <0.00403 U 0.1950 mg/Kg 98 70 - 130 <0.00202 U 0.100 0.09979 70 - 130 o-Xylene mg/Kg 100

Spike

MSD MSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-107640/1-A

Matrix: Solid

Analysis Batch: 107929

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 107640

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 04/14/25 14:45 04/17/25 20:06 <50.0 U mg/Kg (GRO)-C6-C10 04/17/25 20:06 Diesel Range Organics (Over <50.0 U 50.0 04/14/25 14:45 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 04/14/25 14:45 04/17/25 20:06 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	04/14/25 14:45	04/17/25 20:06	1
o-Terphenyl	170	S1+	70 - 130	04/14/25 14:45	04/17/25 20:06	1

Lab Sample ID: LCS 880-107640/2-A

Matrix: Solid

Analysis Batch: 107929

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 107640

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	969.3		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1169		mg/Kg		117	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-7934-1 Project/Site: NEDU 164 SDG: 07A1988168

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

LCS LCS

Lab Sample ID: LCS 880-107640/2-A

Matrix: Solid

Analysis Batch: 107929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107640

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 354 S1+ 70 - 130 o-Terphenyl 352 S1+ 70 - 130

Lab Sample ID: LCSD 880-107640/3-A

Matrix: Solid

Analysis Batch: 107929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107640

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 936.0 94 70 - 130 20 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1161 mg/Kg 116 70 - 13020 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	473	S1+	70 - 130
o-Terphenyl	498	S1+	70 - 130

Lab Sample ID: 880-56864-A-25-D MS

Matrix: Solid

Analysis Batch: 107929

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 107640

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U F2	1000	964.8		mg/Kg		94	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	1000	972.8		mg/Kg		95	70 - 130	
C10-C28)										

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 174 S1+ o-Terphenyl 186 S1+ 70 - 130

Lab Sample ID: 880-56864-A-25-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 107929

Prep Type: Total/NA

Prep Batch: 107640

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.8	U F2	1000	784.4	F2	mg/Kg		76	70 - 130	21	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.8	U	1000	843.9		mg/Kg		82	70 - 130	14	20	
C10-C28)												

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	161	S1+	70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SW02

Client Sample ID: SW02

Prep Type: Soluble

Prep Type: Soluble

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107778/1-A

Matrix: Solid

Analysis Batch: 107784

MB MB

 Analyte
 Result Chloride
 Qualifier Qualifier
 RL Unit mg/Kg
 D mg/Kg
 Prepared D4/16/25 06:10
 Analyzed Dil Fac D4/16/25 06:10

Lab Sample ID: LCS 880-107778/2-A

Matrix: Solid

Analysis Batch: 107784

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 258.2 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-107778/3-A

Matrix: Solid

Analysis Batch: 107784

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 256.6 mg/Kg 103 90 - 110

Lab Sample ID: 890-7934-2 MS

Matrix: Solid

Analysis Batch: 107784

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 110 253 361.1 100 90 - 110 mg/Kg

Lab Sample ID: 890-7934-2 MSD

Matrix: Solid

Analysis Batch: 107784

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 253 110 361.1 mg/Kg 100 90 - 110 0 20

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QC Association Summary

Client: Ensolum Job ID: 890-7934-1 Project/Site: NEDU 164 SDG: 07A1988168

GC VOA

Prep Batch: 107721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Total/NA	Solid	5035	
890-7934-2	SW02	Total/NA	Solid	5035	
890-7934-3	SW03	Total/NA	Solid	5035	
890-7934-4	SW04	Total/NA	Solid	5035	
890-7934-5	SW05	Total/NA	Solid	5035	
890-7934-6	SW06	Total/NA	Solid	5035	
890-7934-7	SW07	Total/NA	Solid	5035	
890-7934-8	SW08	Total/NA	Solid	5035	
890-7934-9	SW09	Total/NA	Solid	5035	
MB 880-107721/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107721/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107721/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7934-1 MS	SW01	Total/NA	Solid	5035	
890-7934-1 MSD	SW01	Total/NA	Solid	5035	

Analysis Batch: 107890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Total/NA	Solid	8021B	107721
890-7934-2	SW02	Total/NA	Solid	8021B	107721
890-7934-3	SW03	Total/NA	Solid	8021B	107721
890-7934-4	SW04	Total/NA	Solid	8021B	107721
890-7934-5	SW05	Total/NA	Solid	8021B	107721
890-7934-6	SW06	Total/NA	Solid	8021B	107721
890-7934-7	SW07	Total/NA	Solid	8021B	107721
890-7934-8	SW08	Total/NA	Solid	8021B	107721
890-7934-9	SW09	Total/NA	Solid	8021B	107721
MB 880-107721/5-A	Method Blank	Total/NA	Solid	8021B	107721
LCS 880-107721/1-A	Lab Control Sample	Total/NA	Solid	8021B	107721
LCSD 880-107721/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107721
890-7934-1 MS	SW01	Total/NA	Solid	8021B	107721
890-7934-1 MSD	SW01	Total/NA	Solid	8021B	107721

Analysis Batch: 107992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Total/NA	Solid	Total BTEX	
890-7934-2	SW02	Total/NA	Solid	Total BTEX	
890-7934-3	SW03	Total/NA	Solid	Total BTEX	
890-7934-4	SW04	Total/NA	Solid	Total BTEX	
890-7934-5	SW05	Total/NA	Solid	Total BTEX	
890-7934-6	SW06	Total/NA	Solid	Total BTEX	
890-7934-7	SW07	Total/NA	Solid	Total BTEX	
890-7934-8	SW08	Total/NA	Solid	Total BTEX	
890-7934-9	SW09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Total/NA	Solid	8015NM Prep	
890-7934-2	SW02	Total/NA	Solid	8015NM Prep	
890-7934-3	SW03	Total/NA	Solid	8015NM Prep	

QC Association Summary

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

GC Semi VOA (Continued)

Prep Batch: 107640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-4	SW04	Total/NA	Solid	8015NM Prep	
890-7934-5	SW05	Total/NA	Solid	8015NM Prep	
890-7934-6	SW06	Total/NA	Solid	8015NM Prep	
890-7934-7	SW07	Total/NA	Solid	8015NM Prep	
890-7934-8	SW08	Total/NA	Solid	8015NM Prep	
890-7934-9	SW09	Total/NA	Solid	8015NM Prep	
MB 880-107640/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107640/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56864-A-25-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-56864-A-25-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Total/NA	Solid	8015B NM	107640
890-7934-2	SW02	Total/NA	Solid	8015B NM	107640
890-7934-3	SW03	Total/NA	Solid	8015B NM	107640
890-7934-4	SW04	Total/NA	Solid	8015B NM	107640
890-7934-5	SW05	Total/NA	Solid	8015B NM	107640
890-7934-6	SW06	Total/NA	Solid	8015B NM	107640
890-7934-7	SW07	Total/NA	Solid	8015B NM	107640
890-7934-8	SW08	Total/NA	Solid	8015B NM	107640
890-7934-9	SW09	Total/NA	Solid	8015B NM	107640
MB 880-107640/1-A	Method Blank	Total/NA	Solid	8015B NM	107640
LCS 880-107640/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107640
LCSD 880-107640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107640
880-56864-A-25-D MS	Matrix Spike	Total/NA	Solid	8015B NM	107640
880-56864-A-25-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	107640

Analysis Batch: 108143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Total/NA	Solid	8015 NM	
890-7934-2	SW02	Total/NA	Solid	8015 NM	
890-7934-3	SW03	Total/NA	Solid	8015 NM	
890-7934-4	SW04	Total/NA	Solid	8015 NM	
890-7934-5	SW05	Total/NA	Solid	8015 NM	
890-7934-6	SW06	Total/NA	Solid	8015 NM	
890-7934-7	SW07	Total/NA	Solid	8015 NM	
890-7934-8	SW08	Total/NA	Solid	8015 NM	
890-7934-9	SW09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Soluble	Solid	DI Leach	
890-7934-2	SW02	Soluble	Solid	DI Leach	
890-7934-3	SW03	Soluble	Solid	DI Leach	
890-7934-4	SW04	Soluble	Solid	DI Leach	
890-7934-5	SW05	Soluble	Solid	DI Leach	
890-7934-6	SW06	Soluble	Solid	DI Leach	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

HPLC/IC (Continued)

Leach Batch: 107778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-7	SW07	Soluble	Solid	DI Leach	
890-7934-8	SW08	Soluble	Solid	DI Leach	
890-7934-9	SW09	Soluble	Solid	DI Leach	
MB 880-107778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7934-2 MS	SW02	Soluble	Solid	DI Leach	
890-7934-2 MSD	SW02	Soluble	Solid	DI Leach	

Analysis Batch: 107784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7934-1	SW01	Soluble	Solid	300.0	107778
890-7934-2	SW02	Soluble	Solid	300.0	107778
890-7934-3	SW03	Soluble	Solid	300.0	107778
890-7934-4	SW04	Soluble	Solid	300.0	107778
890-7934-5	SW05	Soluble	Solid	300.0	107778
890-7934-6	SW06	Soluble	Solid	300.0	107778
890-7934-7	SW07	Soluble	Solid	300.0	107778
890-7934-8	SW08	Soluble	Solid	300.0	107778
890-7934-9	SW09	Soluble	Solid	300.0	107778
MB 880-107778/1-A	Method Blank	Soluble	Solid	300.0	107778
LCS 880-107778/2-A	Lab Control Sample	Soluble	Solid	300.0	107778
LCSD 880-107778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107778
890-7934-2 MS	SW02	Soluble	Solid	300.0	107778
890-7934-2 MSD	SW02	Soluble	Solid	300.0	107778

Eurofins Carlsbad

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SDG: 07A1988168

Client Sample ID: SW01 Lab Sample ID: 890-7934-1

Date Collected: 04/14/25 10:51 Date Received: 04/14/25 15:44

Client: Ensolum

Project/Site: NEDU 164

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 01:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 01:54	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 09:14	CH	EET MID

Lab Sample ID: 890-7934-2

Matrix: Solid

Date Collected: 04/14/25 10:54 Date Received: 04/14/25 15:44

Client Sample ID: SW02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 02:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 02:15	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 09:21	CH	EET MID

Client Sample ID: SW03 Lab Sample ID: 890-7934-3

Date Collected: 04/14/25 10:56 **Matrix: Solid** Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 02:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 02:36	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 09:43	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-7934-4

Date Collected: 04/14/25 10:59 **Matrix: Solid** Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 18:23	SM	EET MID

Client: Ensolum Job ID: 890-7934-1 Project/Site: NEDU 164 SDG: 07A1988168

Client Sample ID: SW04 Lab Sample ID: 890-7934-4 Date Collected: 04/14/25 10:59

Matrix: Solid

Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			108143	04/18/25 02:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 02:56	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 09:50	CH	EET MID

Client Sample ID: SW05 Lab Sample ID: 890-7934-5

Date Collected: 04/14/25 11:02 **Matrix: Solid** Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 03:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 03:17	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 13:48	CH	EET MID

Client Sample ID: SW06 Lab Sample ID: 890-7934-6

Date Collected: 04/14/25 11:05 **Matrix: Solid** Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 03:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 03:37	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 13:55	CH	EET MID

Client Sample ID: SW07 Lab Sample ID: 890-7934-7

Date Collected: 04/14/25 11:07 **Matrix: Solid** Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 19:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 03:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 03:57	AJ	EET MID

Client: Ensolum Project/Site: NEDU 164 Job ID: 890-7934-1

SDG: 07A1988168

Client Sample ID: SW07

Date Collected: 04/14/25 11:07 Date Received: 04/14/25 15:44 Lab Sample ID: 890-7934-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 14:02	CH	EET MID

Client Sample ID: SW08 Lab Sample ID: 890-7934-8

Date Collected: 04/14/25 11:11 Matrix: Solid

Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 04:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 04:19	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	107778	04/15/25 14:22	SA	EET MID
Soluble	Analysis	300.0		1			107784	04/16/25 14:09	CH	EET MID

Client Sample ID: SW09 Lab Sample ID: 890-7934-9

Date Collected: 04/14/25 11:58

Date Received: 04/14/25 15:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	107721	04/15/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 20:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107992	04/16/25 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			108143	04/18/25 04:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	107640	04/14/25 14:45	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107929	04/18/25 04:39	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107778	04/15/25 14:22	SA	EET MIC
Soluble	Analysis	300.0		1			107784	04/16/25 14:16	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Matrix: Solid

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELAI	Р	T104704400	06-30-25	
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM	8015 NM		Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

 Client: Ensolum
 Job ID: 890-7934-1

 Project/Site: NEDU 164
 SDG: 07A1988168

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	EPA	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

EPA = US Environmental Protection Agency

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Job ID: 890-7934-1 Project/Site: NEDU 164 SDG: 07A1988168

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7934-1	SW01	Solid	04/14/25 10:51	04/14/25 15:44	0-4
890-7934-2	SW02	Solid	04/14/25 10:54	04/14/25 15:44	0-4
890-7934-3	SW03	Solid	04/14/25 10:56	04/14/25 15:44	0-4
890-7934-4	SW04	Solid	04/14/25 10:59	04/14/25 15:44	0-4
890-7934-5	SW05	Solid	04/14/25 11:02	04/14/25 15:44	0-4
890-7934-6	SW06	Solid	04/14/25 11:05	04/14/25 15:44	4-5
890-7934-7	SW07	Solid	04/14/25 11:07	04/14/25 15:44	4-6
890-7934-8	SW08	Solid	04/14/25 11:11	04/14/25 15:44	4-6
890-7934-9	SW09	Solid	04/14/25 11:58	04/14/25 15:44	4-9

Page 28 of 30

Released to Imaging: 8/4/2025 12:59:14

Bill to: (if different)

Company Name:

City, State ZIP:

Address:

Rush

5-DAY

(Yes) No Transo7

Grab/

Comp

-0,2

Depth

Turn Around

TAT starts the day received by the lab, if received by 4:30pm

☑ Routine

Due Date:

Wet Ice:

Sampled

eurofins

Project Manager: Company Name:

City, State ZIP:

Project Name:

Project Number:

Project Location:

Sampler's Name:

SAMPLE RECEIPT

Samples Received Intact:

Cooler Custody Seals:

Sample Custody Seals:

Sample Identification

Total Containers:

Address:

Phone:

PO #:

Devin Hencmann

3122 National Parks Hwy

NEDU 164

07A1988168

32.518088, -103.144784

Alex Ferrell

Temp Blank:

Yes No (N/A

Yes No N/A

Matrix

Yes.

Carlsbad, NM 88220

Ensolum, LLC

805-798-2608

Environment Testing Xenco

Yes No

Date

Sampled

Thermometer ID:

Correction Factor:

Temperature Reading:

Corrected Temperature

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

Billy Ginn

Hilcorp

Email: dhencmann@ensolum.com; fsmith@ensolum.com

Pres.

Code

Parameters

of

Cont

Chlorides



	_	Program:	USI/PS	і 🗆 Рі	Kb∏ Rlow	ntielas 🖂 KKC	. □ Superiuna □				
		State of Project:									
		Reporting:	Level II	Leve	el III 🗌 PS	T/UST 🗌 TRR	P Level IV				
		Deliverable	es: EDD		ADaP	T Othe	er:				
s	REQ	UEST				Preserv	ative Codes				
						None: NO	DI Water: H₂O				
						Cool: Cool	MeOH: Me	L			
						HCL: HC	HNO ₃ : HN				
						H ₂ S0 ₄ : H ₂	NaOH: Na				
						H₃PO₄: HP					
						NaHSO₄: NAE	IIS				
			_			Na ₂ S ₂ O ₃ : NaS	O ₃				
						Zn Acetate+Na	aOH: Zn				
						NaOH+Ascort	oic Acid: SAPC				
						Sample	Comments				
_								1			

SW01	Soil	4/14/2025	1051	0-4'	Comp	1	Х	Х	Х		 	 			
SW02	Soil	4/14/2025	1054	0-4'	Comp	1	Х	Х	Х						
SW03	Soil	4/14/2025	1056	0-4'	Comp	1	Х	Х	Х						
SW04	Soil	4/14/2025	1059	0-4'	Comp	1	Х	Х	Х						
SW05	Soil	4/14/2025	1102	0-4'	Comp	1	Х	Х	Х						
SW06	Soil	4/14/2025	1105	4-5'	Comp	1	Х	Х	Х						
SW07	Soil	4/14/2025	1107	4-6'	Comp	1	Х	Х	Х						
SW08	Soil	4/14/2025	1111	4-6'	Comp	1	Х	Х	Х						
SW09	Soil	4/14/2025	1158	4-9'	Comp	2	Х	Х	Х						
															AF

BTEX

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Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

ANALYS

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 Andr	alech	3:44 4/1	7		
3			4		
5			6		
					1 1 D -1 - 00 DE DOOD D 2020

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7934-1

SDG Number: 07A1988168

Login Number: 7934 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7934-1 SDG Number: 07A1988168

> List Source: Eurofins Midland List Creation: 04/15/25 08:41 AM

List Number: 2 Creator: Rios, Minerva

Login Number: 7934

COC is present

HTs)

COC is filled out in ink and legible.

Sample containers have legible labels. Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

COC is filled out with all pertinent information

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

There is sufficient vol. for all requested analyses, incl. any requested

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	

True

True

True

True

True

True

True

True

True

True

True

N/A

True

N/A

MS/MSDs Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Released to Imaging: 8/4/2025 12:59:14 PM



APPENDIX E

NMOCD Sample Notifications

To: <u>Fatima Smith</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 433234

Date: Tuesday, February 18, 2025 2:48:05 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Fatima Smith for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2503455200.

The sampling event is expected to take place:

When: 02/21/2025 @ 12:00

Where: A-03-21S-37E Lot: 1 0 FNL 0 FEL (32.518719,-103.14431)

Additional Information: Contact PM Fatima Smith, 575-725-1196

Sampling will occur on Friday February 21, 2025.

Additional Instructions: NEDU 164 Flowline, coordinates 32.518088, -103.144784

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Fatima Smith</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 438640

Date: Tuesday, March 4, 2025 9:42:32 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Fatima Smith for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2503455200.

The sampling event is expected to take place:

When: 03/06/2025 @ 09:00

Where: A-03-21S-37E Lot: 1 0 FNL 0 FEL (32.518719,-103.14431)

Additional Information: Contact PM Fatima Smith, 575-725-1196

Additional Instructions: NEDU 164 Flowline, coordinates 32.518088, -103.144784

This notification is to alert OCD of sampling that will occur Thursday March 6, 2025

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Fatima Smith</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 440542

Date: Monday, March 10, 2025 6:59:41 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Fatima Smith for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2503455200.

The sampling event is expected to take place:

When: 03/10/2025 @ 09:00

Where: A-03-21S-37E Lot: 1 0 FNL 0 FEL (32.518719,-103.14431)

Additional Information: Contact PM Fatima Smith, 575-725-1196

Additional Instructions: NEDU 164 Flowline, coordinates 32.518088, -103.144784

This notification is to alert OCD of sampling that will occur on Monday March 10, 2025 through Wednesday March 12, 2025.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Fatima Smith</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 440690

Date: Monday, March 10, 2025 10:15:51 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Fatima Smith for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2503455200.

The sampling event is expected to take place:

When: 03/13/2025 @ 09:00

Where: A-03-21S-37E Lot: 1 0 FNL 0 FEL (32.518088,-103.144784)

Additional Information: Contact PM Fatima Smith, 575-725-1196

Additional Instructions: NEDU 164 Flowline, coordinates 32.518088, -103.144784

This notification is to alert OCD of sampling that will occur on Thursday March 13, 2025 through Friday March 14, 2025

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

To: <u>Fatima Smith</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 450266

Date: Wednesday, April 9, 2025 10:06:23 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Fatima Smith for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2503455200.

The sampling event is expected to take place:

When: 04/14/2025 @ 09:00

Where: A-03-21S-37E Lot: 1 0 FNL 0 FEL (32.518088,-103.144784)

Additional Information: Contact PM Fatima Smith, 575-725-1196

Additional Instructions: NEDU 164 Flowline, coordinates 32.518088, -103.144784

This notification is to alert OCD of sampling that will occur on Monday April 14, 2025, through Wednesday April 16, 2025.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

From: Billy Ginn

To: <u>Devin Hencmann</u>; <u>Stuart Hyde</u>; <u>Fatima Smith</u>

Subject: FW: [EXTERNAL] nAPP2503455200 - Northeast Drinkard Unit 164 Sampling Notification Variance Request

Date: Monday, March 10, 2025 8:44:21 AM

Attachments: image001.png

image002.png image003.png

[**EXTERNAL EMAIL**]

See below

Billy Ginn

Environmental Specialist - PW

Office: (346) 237-2073 Cell: (832) 561-4185 william.ginn@hilcorp.com

Hilcorp Energy Company

1111 Travis Street Houston, TX 77002

From: Mitch Killough <mkillough@hilcorp.com>

Sent: Monday, March 10, 2025 9:43 AM **To:** Billy Ginn < William.Ginn@hilcorp.com>

Subject: FW: [EXTERNAL] nAPP2503455200 - Northeast Drinkard Unit 164 Sampling Notification

Variance Request

Mitch Killough Hilcorp Energy Company 713-757-5247 (Office) 281-851-2338 (Mobile)

From: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >

Sent: Monday, March 10, 2025 8:38 AM

To: Kate Kaufman < kkaufman@hilcorp.com>; Mitch Killough < mkillough@hilcorp.com>; Matt Vicenik < mvicenik@hilcorp.com>; Matt

Subject: FW: [EXTERNAL] nAPP2503455200 - Northeast Drinkard Unit 164 Sampling Notification

Variance Request

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Kate Kaufman,

When submitting the C-141 for this release, there is a statement that requires a Yes or No box to be checked. The statement is: "The concentration of dissolved chloride in the produced water >10,000 mg/l". Hilcorp checked the box "No". OCD requests Hilcorp obtain a representative sample of the produced water for this site and have it lab tested for dissolved chloride. Provide OCD two business days' notice prior to obtaining the sample. Lab analysis data must be submitted to OCD upon receipt by Hilcorp.

Thank you,

Mike Bratcher

Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 |
mike.bratcher@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Wells, Shelly, EMNRD < Shelly. Wells@emnrd.nm.gov>

Sent: Monday, March 10, 2025 7:16 AM

To: Rodgers, Scott, EMNRD < Scott.Rodgers@emnrd.nm.gov > **Cc:** Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >

Subject: FW: [EXTERNAL] nAPP2503455200 - Northeast Drinkard Unit 164 Sampling Notification

Variance Request

From: Fatima Smith < fsmith@ensolum.com>
Sent: Monday, March 10, 2025 7:05 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Enviro, OCD, EMNRD

<<u>OCD.Enviro@emnrd.nm.gov</u>>

Cc: Devin Hencmann <<u>dhencmann@ensolum.com</u>>; Stuart Hyde <<u>shyde@ensolum.com</u>>

Subject: [EXTERNAL] nAPP2503455200 - Northeast Drinkard Unit 164 Sampling Notification Variance

Request

You don't often get email from fsmith@ensolum.com. Learn why this is important

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

Morning,

On behalf of Hilcorp Energy Company, we are requesting a variance from the 2-business day

sampling notification requirement outlined in 19.15.29.12(D)(1)(a) NMAC to allow soil sampling to begin on Monday March 10, 2025, at the Northeast Dunkard 164 site. Due to the availability of contractors, we are wanting to start digging at the site today in order to expedite the cleanup process.

Please reach out if you have any questions or concerns. Thank you in advance for your help



The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

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

QUESTIONS

Action 478520

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2503455200
Incident Name	NAPP2503455200 NORTHEAST DRINKARD UNIT 164 @ 30-025-40526
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-40526] NORTHEAST DRINKARD UNIT #164

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NORTHEAST DRINKARD UNIT 164
Date Release Discovered	01/24/2025
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 7 BBL Recovered: 5 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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General Information Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 478520

		QUESTIONS	(continued
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Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 06/24/2025

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 478520

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in millig	rams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2200	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10700	
GRO+DRO (EPA SW-846 Method 8015M)	10700	
BTEX (EPA SW-846 Method 8021B or 8260B)	604	
Benzene (EPA SW-846 Method 8021B or 8260B)	25.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	04/14/2025	
On what date will (or did) the final sampling or liner inspection occur	04/14/2025	
On what date will (or was) the remediation complete(d)	04/14/2025	
What is the estimated surface area (in square feet) that will be reclaimed	1800	
What is the estimated volume (in cubic yards) that will be reclaimed	400	
What is the estimated surface area (in square feet) that will be remediated	1800	
What is the estimated volume (in cubic yards) that will be remediated	400	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 8/4/2025 12:59:14 PM

Phone: (505) 629-6116
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 478520

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	SUNDANCE SERVICES, INC [fKJ1600527371]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
Pay Cubacation P of 10 15 20 11 NMAC unless the site abeycatarization yearst includes completed affairs at remodiation, the report must include a prepared remodiation plan in accordance with 10 15 20 12 NMAC		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: shyde@ensolum.com
Date: 06/24/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 478520

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

QUESTIONS, Page 6

Action 478520

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	450266
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/14/2025
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	1603

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	1800	
What was the total volume (cubic yards) remediated	400	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	1800	
What was the total volume (in cubic yards) reclaimed	400	
Summarize any additional remediation activities not included by answers (above)	N/A	

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

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

Name: Stuart Hyde
Title: Senior Geologist
Email: shyde@ensolum.com
Date: 06/24/2025

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 478520

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

Phone: (505) 629-6116

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

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

CONDITIONS

Action 478520

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	478520
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Creat By		Condition Date
nvel	vz None	8/4/2025